ENGINEERING NEWS-RECORD

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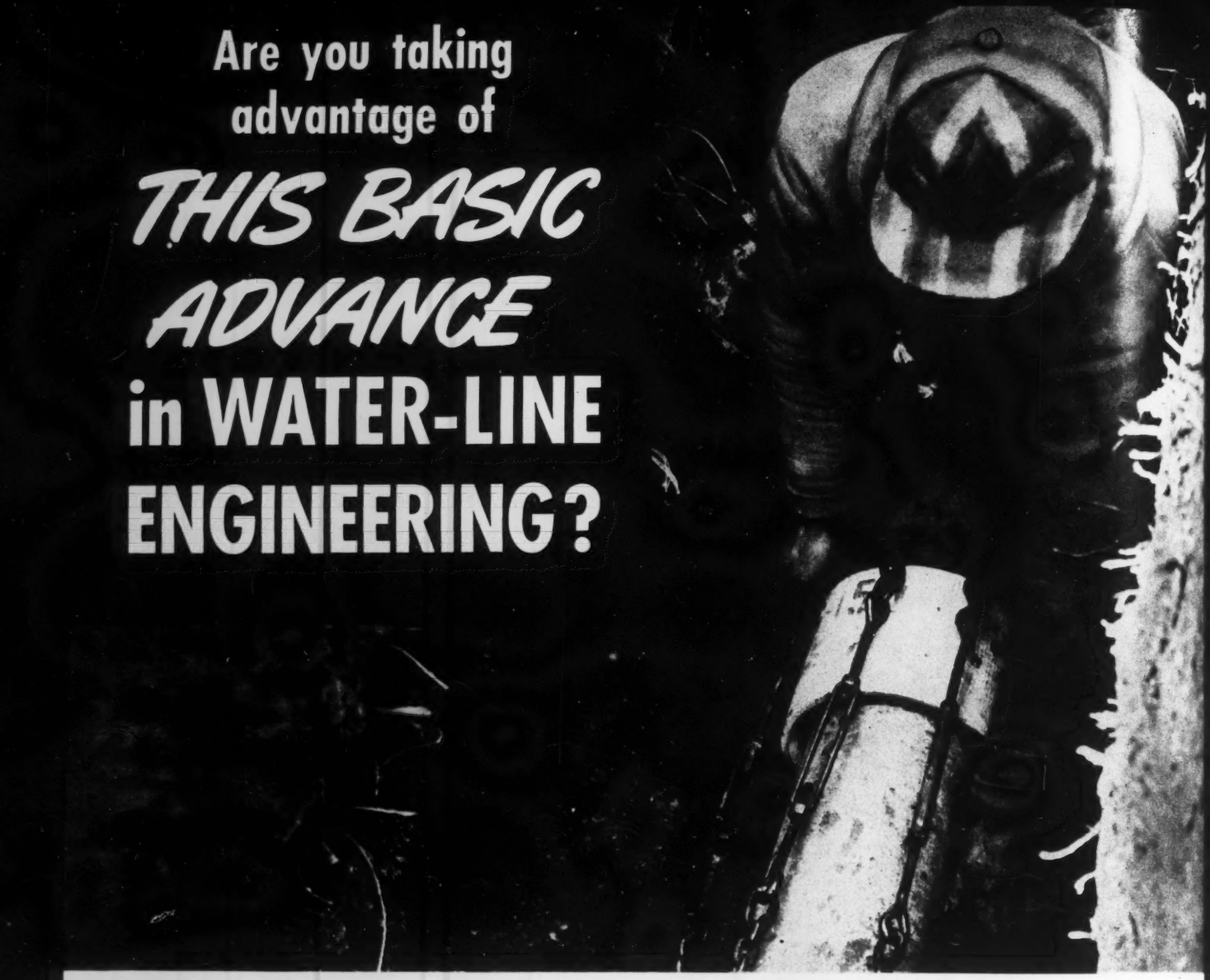

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The Week In Engineering and Construction

ENGINEERING NEWS-RECORD • OCTOBER 16, 1941

SPAB ruling not a ban on all non-defense construction

Policy statement made by the SPAB last week does not prohibit non-defense building but removes all possibility of getting priorities on materials for such work.

The policy on construction enunciated last week by the Supply, Priorities, and Allocation Board has created immense confusion, but one thing is clear, anyone who can find materials is perfectly welcome to go ahead and build. The SPAB statement is not a limitation order such as was imposed on the auto industry. There, the auto builders were told they could build no more than a certain number of cars. Nothing of that sort has happened to construction. Simply, SPAB has said that it will give priority ratings only to defense projects and to those "clearly essential to the health and safety of the civilian population."

Relates only to priorities

To date, the SPAB ruling relates only to obtaining priorities for materials needed for construction projects. If a non-defense project can go ahead without priorities for needed materials, the SPAB ruling does not interfere. It is not impossible, however, that SPAB might issue an actual limitation order in the near future—might forbid construction without a priority rating, even though the materials were on hand. It is understood that consideration was given to such a move, with the objective of forcing into defense channels existing inventories of strategic materials. However, it was decided to reserve this drastic step until completion of a survey now underway of the size of inventories in the hands of builders. If the survey reveals an undue amount of hoarding, the more drastic order may yet issue.

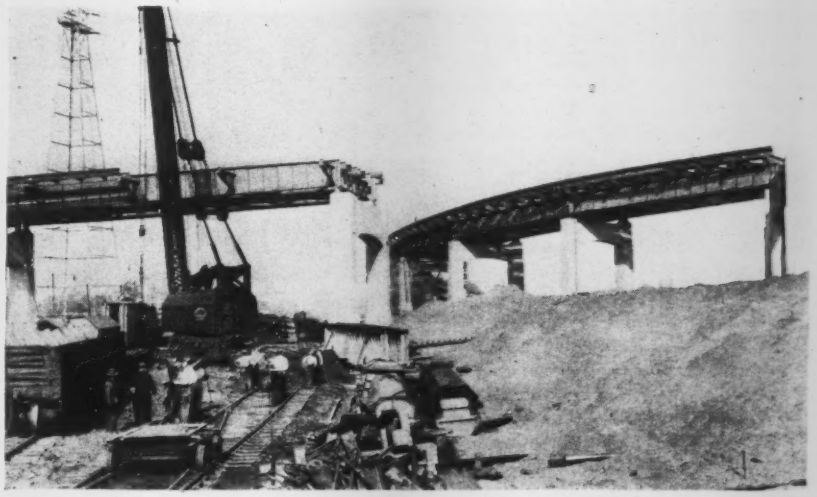
Materials becoming scarce

SPAB's statement, in addition, draws attention to the fact that building and construction materials are becoming increasingly scarce. It is already true to a considerable extent, and will become increasingly so in the future, that no large scale job involving the use of metal can safely be undertaken without the aid of a priority rating.

This situation really came to a head last month when priority plans for defense housing and defense roadbuilding were set up. These plans still remain in effect. Since these plans accelerate the issuance of priorities to certain types of construction, it means that a very large number of buyers are in the market armed with ratings; they tend to strip clean the limited supplies of materials and leave the buyer who has no rating in the cold. This situation has existed for some time and is not altered by the SPAB statement.

As a matter of fact, SPAB has eased the situation in one important respect. Construction jobs now underway and on which a "substantial" portion has been completed, SPAB says, will be given help in getting the materials needed to complete them. No special machinery is being set up to handle this matter, but construction men who find themselves in the situation of having a job half done and difficult to complete because of shortages have several lines of approach open to them:

If the difficulty lies in one specific item — reinforcing bars, nails, insulating board, or the like—the thing to do is to fill out a PD-1 form, an application for a priority rating, and send it to SPAB's



Wye approach steel in place for Hartford bridge

Part of a new highway, to be known as the Hartford Bypass, is the new bridge shown above which will carry traffic from and to Hartford, Conn. on the right section and U. S. Route 5 traffic on the left section of the wye.

The structure crosses the Connecticut River on tall piers and a 3-span, 840-ft. continuous deck plate girder unit flanked by several shorter spans. The 840-ft. section is made up of 271-300-271-ft. spans, the center one being the longest plate girder in the world. Erection so far has been over land and done with cranes traveling on the ground. The river spans will be erected with a traveler on the deck and use of falsework bents to make the largest pieces to be handled about 100 tons, which will be swung into position by the derrick operating on a 75-ft. radius.

The bridge is being constructed by the Connecticut department of highways under L. J. Conaty, project engineer. A. I. Savin Const. Co. built the substructure, while American Bridge Co. is fabricating and erecting the steel with W. J. Ward in charge of the field.

director of priorities. If successful, this would result in issuance of a rating on an order for the troublesome item.

If, however, the project is in constant difficulty with deliveries of all sorts of things, a better procedure is to write a very detailed letter to the Project Rating Section, Priorities Division, SPAB, asking for a project rating on the job. The letters should describe the job in some detail, tell what materials are needed and what efforts have been made to obtain them, including the names of suppliers canvassed.

In either case, the application should emphasize the degree of completion already achieved and should make specific reference to the new SPAB policy.

If the job is frankly a non-defense project, it would be well at the same time to get in touch with the lumber and building materials section of OPM's Division of Civilian Allocation: this section is now headed by John L. Haynes. If at all possible, and if the job is big enough to make it worth while, it might be desirable to go to Washington personally rather than try to deal by mail. Despite all efforts to regularize procedure, it is still true as regards priorities that the wheel that squeaks loudest gets the grease.

New work discouraged

Apparent purpose of SPAB in issuing its statement at this time is to forestall a flood of applications that cannot be granted. It has asked local agencies that control the issuance of building permits to discourage applications in cases where the builder cannot get material without a rating and where he is obviously not entitled to a rating. In most jurisdictions it would not legally be possible flatly to refuse a permit on these grounds, but local governments can draw the attention of applicants to the fact that they are likely to get in trouble if they go ahead.

The policy statement also constitutes a warning to federal agencies and Congress that they will get no special preference if they attempt to go ahead with non-defense public works. To date, federal agencies have used about the same procedures as private builders in getting priority ratings. The only blanket preferences granted to public agencies have been the special arrangements worked out with Federal Works Agency in connection with its defense housing, defense public works, and road-building programs. It has not had priority ratings on slum-clearance housing and clearly will not be able to get them except in those cases where arrangements have been made for defense use of slum-clearance projects. Anyway, USHA has little money for new slum-clearance jobs and most of its work now is on defense housing. The WPA will certainly have trouble finding construction projects that do not use scarce materials. The Bureau of Reclamation has been able to get ratings on those of its projects involving power but not on others.

The civil functions section of the Army Engineers clears its priority applications through the Army and Navy Munitions Board in the same way that the military services do, but this does not mean it has had ratings on all its navigation and flood control projects; each job is supposed to be considered on its merits and its connection with defense is evaluated before a rating is given.

In general, all the federal agencies have been holding back on initiating new non-defense jobs in line with the President's policy, proclaimed some months ago, that such work should be deferred until after the emergency.

Effect of new ruling

When it set forth its policy on construction, SPAB released some estimates of the probable effect of material shortages on the volume of construction. Its figures however are regarded with some skepticism by statistical agencies—public and private—outside the OPM. Most seem to think, for instance, that it uses too high a figure for this year's construction.

According to SPAB, construction this year will total $11,200,000,000, of which about $4,900,000,000 is defense work. Next year, SPAB estimates, material shortages will cut the total to $8,500,000,000, of which something like $6,500,000,000 will be defense. Construction employment this year is averaging about 2,700,000 men and is currently at a 3,100,000-man peak. Next year the average for the construction industry is expected to drop to about 2,100,000.

The governing board of the Associated General Contractors is considering these matters this week at its Detroit meeting. Immediately after the SPAB announcement came out, President M. W. Watson of the AGC issued a statement saying that to restrict priority aid to defense and health-and-safety projects will throw 4,500,000 men out of work—1,500,000 at the site and 3,000,000 who produce and distribute non-critical construction materials. "If this drastic blow to the construction industry is fully justified," Watson said, "the construction industry will accept it." He added, however, that the SPAB announcement does not reveal figures which justify such a drastic step. The construction industry, he said, is willing to make any necessary sacrifice for defense, but it should not be shut down without ample explanation and assurance that other industries are expected to make equal sacrifices.

Comment from construction industry

Following the announcement of SPAB ruling last week, the editors of *Engineering News-Record* sent telegrams to a number of leaders in the construction industry in different parts of the country in an effort to get a country-wide cross-section of opinions on the probable effect of the ruling. Replies to these telegrams are given below:

Government ban on private construction will not affect our activities the balance of this year. As to next year, it appears we will all be dependent on defense construction under any conditions. I cannot see that the new order changed conditions from that now existing by reason of priorities. My feeling is everyone should be loyal enough to forget personal interests and devote all possible energies to defense work. The ban will stop all real estate improvements which will cause tremendous unemployment and, in my opinion, will be a backward step that may have serious effect on taxes and may bring about excessive increases in rentals. It will undoubtedly pile up a tremendous volume of private construction to be done in the post-war period that may bring inflationary increases in cost of both labor and materials, as happened after the first World War, unless properly and effectively controlled. This may be good or bad depending on how sanely it will be handled. The greatest effect of the ban will be on the smaller contractors not equipped or fitted to handle large defense projects.—J. W. COWPER, *president, The John W. Cowper Co., Buffalo, N. Y.*

Munitions ordnance, arms, ships, tanks, etc. must come first. Water supply and sanitation should come second for the morale and health of the fighting forces and civilians depend upon it. Demands on the water supplies of our cities are increasing by leaps and bounds and extension of the supply, distribution, filters and pumping equipment must be made to meet the demands for defense purposes. To restrict operating supplies and equipment to our water department would result in a crippled service and possible failure of supply to our Navy Yards, ordnance depots, hospitals, Quartermaster embarkation depots, and all defense and civilian workers. If curtailment must come, stop all needless road, water-power, public building, waterway and harbor improvement that cannot possibly be completed until long after the emergency has passed.—JAMES E. GIBSON, *manager and engineer, Commissioners of Public Works, Charleston, S. C.*

The government's ban on non-defense construction: unless its application is considerably modified and its operation clari-

(Continued on p. 9)

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New activated sludge treatment method outlined at federation meeting

Second annual convention of Federation of Sewage Works Associations lays emphasis on pollution and operating problems. Registration totaled 570, while 35 manufacturers exhibited equipment at three-day meeting.

Laboratory studies at Harvard University and large scale plant operating experience in New York City independently reveal that the performance of the activated sludge process of sewage treatment is improved if sewage is added in multiple "doses" to the aeration tank instead of in a single dose as is conventionally practiced. Theoretical and practical aspects were described by J. E. McKee and Gordon Fair of the Harvard Graduate School of Engineering and Richard H. Gould, acting deputy commissioner, New York City Department of Public Works, at the second annual convention of the Federation of Sewage Works Associations held at New York, Oct. 9-11.

At the meeting, which brought together 570 sewage works engineers and operators representing 26 sectional groups in this country and abroad, Arthur S. Bedell, chief of the Bureau of Sewage and Waste Disposal, New York State Department of Health, was elected president. The three-day program laid emphasis on operating problems and industrial waste pollution control. An exhibit of equipment was provided by 35 manufacturers.

In a review of New York City's program in sewage disposal, Irving V. A. Huie, commissioner, Department of Public Works, stated that new construction projects in the imposing program started by the city ten years ago have been eliminated because of defense demands for building materials. He pointed out that four large disposal plants have been completed as a result of which one-third of the city's sewage flow is being treated, compared with only 12 percent a decade ago. More significantly, he remarked, is that the amount of pollution now removed is 20 times greater because of improved treatment methods.

Professor Fair, reporting on the Harvard studies with activated sludge, stated that the modified process of adding sewage gradually to returned activated sludge along the line of flow equalizes the physical and biological phases of the process and thereby increases efficiency and economy. Carefully controlled experiments in glass bottles revealed that load distribution by multiple-point introduction of sewage in an aeration tank maintains oxygen demand at a more uniform level than conventional methods of operation. This method also produces a good effluent without increasing air requirements, and it is possible to carry on operations in tanks 23 to 35 percent more in volume than are now required. Use of this modified system, said Professor Fair, requires no special equipment and readily can be incorporated in existing tanks by providing additional sewage inlets along the line of flow and adding transverse baffles.

When the Tallmans Island treatment plant was designed three years ago provisions were made in the activated sludge tanks for "step aeration" (introducing sewage at three points) according to Commissioner Gould. Experience has shown that this scheme of diluting activated sludge with sewage at successive points in its flow to the tank gives the sludge a longer contact period and permits the storage of more sludge in the tank for the same effluent concentration, all of which contributes to greater flexibility of operating control.

Blackstone photo

Arthur S. Bedell, new president of the Federation of Sewage Work Associations.

Stream pollution control

Unless more progress is made by the states in solving their unyielding industrial waste problem, we must be prepared to accept federal administration of pollution control in some form, said Milton T. Adams, executive secretary-engineer, Michigan Stream Control Commission. He criticized those who sought to make uniform the pollution statutes of all the states as having overlooked the uniformity and protection against pollution and other water abuses already available. Adequate protection was said to be inherent in the so-called common or court-made law of the United States and of the several states. If we would but utilize this declared policy of the so-called common law of waters, there would be no need for federal legislation, in his opinion.

Discussing various elements of sewage treatment plant operation in emergencies, Warren J. Scott, director of sanitary engineering, Connecticut State Department of Health, pointed out that if it became necessary to bypass the flow, chlorination facilities should be operated at full capacity to disinfect raw sewage before it is discharged into a water course. Thus, comparatively good overall disinfection can be secured and this is a worthwhile step toward health protection.

Abstracts from the papers quoted above and others presented at the technical sessions are scheduled for publication in an early issue of *Engineering News-Record*.

Officers elected

Officers elected for the coming year in addition to Mr. Bedell were: George J. Schroepfer, St. Paul, Minn., vice president; W. W. DeBerard, Chicago, re-elected to serve as treasurer; and W. H. Wisely, Urbana, Ill., re-elected to the post of executive secretary. F. W. Mohlman, Chicago, continues as editor of *Sewage Works Journal*.

To give recognition to the long time plant operators, a quarter century club was inaugurated during the convention. Open only to those who operated or assisted in the operation of a treatment plant prior to Oct. 1, 1916, the initial membership numbers 20 men. Oldest in point of service is Julius Bugbee of the Providence, R. I. department of public works, who started his practice in sewage disposal 48 years ago.

Membership of the Federation, as reported by Executive Secretary W. H. Wisely, was 2,789 on Sept. 30. The largest local section is in New York State with a total of 638 members.

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New U. S. map available

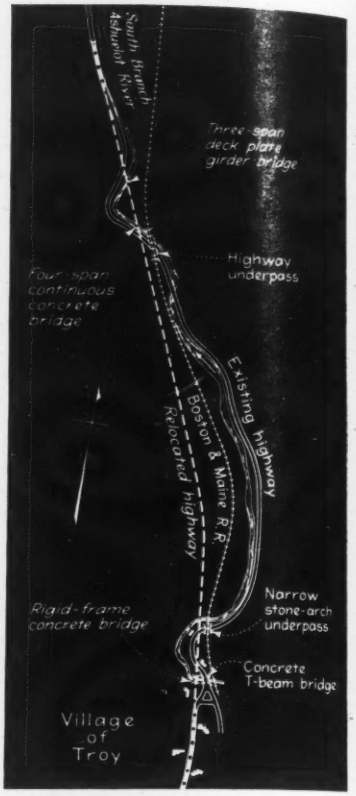
Shortly after Oct. 15 a new official master map of the United States will be available for distribution, according to Commissioner Fred W. Johnson, of the General Land Office. Brought up to date after more than two years of research and engraving work, the 7x5-ft. map shows many features never before included in the official chart. Copies of the new map, mounted on canvas, are to be sold to the public at $3.50 each by the Superintendent of Documents, Washington, D. C.

New Hampshire straightens a crooked road

One of the worst pieces of road on State Route No. 12 in New Hampshire is now being relocated as part of the progressive reconstruction of that route into the White Mountains which is being undertaken by the state highway department as funds become available. The new work is about midway between the Massachusetts state line and Keene, and including reconstruction of an existing street through the village of Troy has a total length of 2¼ miles. The relocated section, beginning just to the north of the village, is about one mile long. It involves the heaviest grading operation yet undertaken in the reconstruction of Route 12.

To the north of the village the existing highway drops down into the valley of the South Branch of the Ashuelot River, crosses the river, then makes a sharp right-hand turn under the Boston & Maine R.R. tracks through a narrow underpass of low headroom. From that point the highway follows the river fairly closely, crosses it again, then passes under the railroad where the railroad crosses the river on a high steel bridge. This underpass is not as restricted as the first one but it leads into a bad reverse curve where the river swings around the nose of the hill before coming into the more open valley to the north. Both underpasses are eliminated by the new work.

Four bridges are involved in the present undertaking, two at the north end of the village of Troy and two river crossings near the north end of the project. The two bridges at the south end are of short span, one on the new highway and one on a connection to the existing highway that must be maintained. For the two crossing at the north end, where the stream must be crossed at an angle, one bridge is to be a four-span ribbed frame structure of reinforced concrete and the other a three-span continuous deck-plate girder on concrete piers.



A location west of both the river and the railroad to the north of the village of Troy makes possible elimination of two railway underpasses and many curves in a distance of less than a mile.

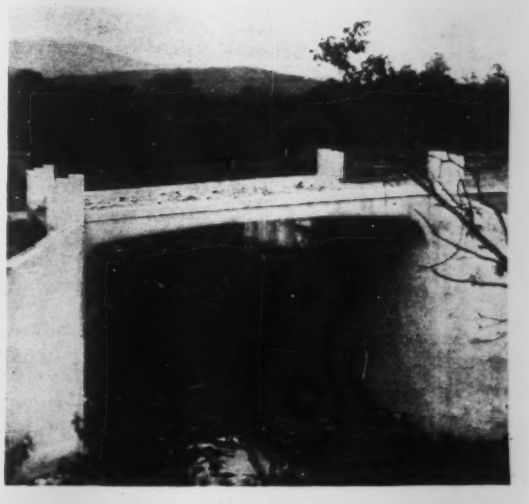
The new highway cuts straight through country west of the Boston & Maine R.R. The old road winding around the nose of a hill, can be seen at the left, beyond the river. This picture, looking south along the new location, was taken from the top of what will be a deep rock cut. The road used for construction is shown in the foreground.

A considerable amount of heavy rock work is involved in the new line. This view is looking south along the center line at a point where one of the worst curves is to be taken out.

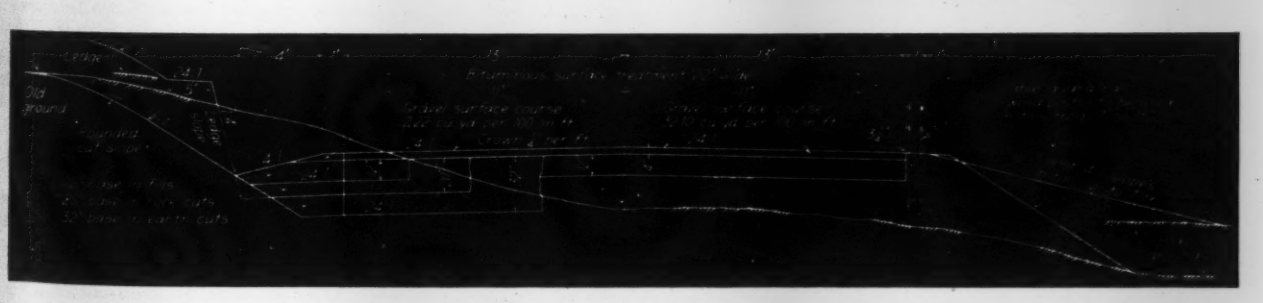
The new road is to be a bituminous surface-treated gravel, the surface-treated area being 22 ft. wide on a base course having a minimum width of 26 ft. The pavement has a crown of ¼ in. per foot. It consists of a 4-in. surface course on a 12-in. base course on the fills. This base course is increased to 20 in. in rock cuts and is variable in earth cuts. Through the village of Troy the surface treatment will have a total width of 34 ft. between curbs.

Construction of the new highway is being done under the direction of Frederic E. Everett, commissioner, New Hampshire Highway Department; Daniel H. Dickinson, chief engineer, and J. O. Morton, construction engineer. The contractor is the John Iafolla Construction Co., Dedham, Mass., the contract price being $278,881.

First crossing of the South Branch of the Ashuelot River is a simple reinforced concrete rigid frame bridge of 32-ft. span.



New roadway will be of gravel construction with a 22-ft. wide bituminous surface treatment on a base course having a minimum width of 26 ft.



Ontario power supply cut by severe windstorm

A severe power failure in the province of Ontario and one of the first major breaks on any of the high tension transmission lines of the Ontario Hydro-Electric Power Commission occurred Oct. 7, when a strong wind smashed four towers on two major transmission lines about 130 miles east of Toronto. The towers were 3 mi. to the west of Cloyne and 50 mi. north of Belleville, and were on two of the three main 220,000-v. transmission lines that bring power to the Toronto area from the Chats Falls plant, and other power stations in the Ottawa valley.

The failure of the towers short-circuited all three lines and cut off 700,000 hp. from the main hydro system. This had an immediate effect on the main transmission network, and the city of Toronto and adjacent areas were without power for about two hours from the time of the break, which occurred just before the afternoon rush hour. As a result traffic was completely disorganized in the city of Toronto and work halted in all industrial plants for varying lengths of time.

Fortunately, a new 220,000-v. line that had been completed last summer to bring power from the Beauharnois plant in Quebec was in service. This line, designed to carry 150,000 hp., was loaded up to 360,000 hp. for the period immediately following the power failure. To further relieve the difficulty, 150,000 hp. normally exported to the United States at Niagara Falls was cut off. Defense production in many of Ontario's industrial plants was interfered with for various periods up to half a day.

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Philadelphia official seeks funds for sewage works

Acting Mayor Samuel of Philadelphia reports that he plans to ask his city council to appropriate $1,000,000 under the 1942 budget to continue the Philadelphia sewage disposal program. The appropriation will be spent entirely for work on the Delaware River, Director of Public Works John H. Neeson revealed.

The mayor's $1,000,000 program is considered a stop-gap for the city's $42,000,000 disposal program, which was twice blocked by unfavorable rulings of the Pennsylvania State Supreme Court. The mayor also plans to ask the city council to release $750,000, left from sewer loans voted for previous programs. He also pointed out that the city of Philadelphia will have an additional buying capacity Jan. 1, 1943, when it may then be able to borrow $5,000,000 or more for the sewage disposal program.

JOBS OF THE WEEK

OCEAN TERMINAL DEVELOPMENT, Mobile, Ala.
United Construction Co., Winona, Minn., was low bidder with a bid of $1,130,753 for constructing the substructure for the Ocean Terminal Development at Brookley Field. Bids were taken by U. S. Engineers, Mobile, Ala.

SEWAGE TREATMENT WORKS, New York, N. Y.
Tomasetti Contracting Corp., Brooklyn, N. Y., was low bidder on Contract 4 for the structures and equipment for the Twenty-sixth Ward Sewage Treatment Works, when the New York City Department of Public Works took bids October 8. The Tomasetti firm bid $1,688,563; H. Sand & Co., New York, was low for the piping work with a bid of $443,110.

DRAINAGE PROJECT, Texas.
The Texas State Health Department, Austin, plans a state-wide drainage project, including construction of earth levees, filling, grading, etc. Estimated cost of the work is $1,412,904, and the work will be done as a WPA project.

DEFENSE HOUSING, West Mayfield, Pa.
J. O. Burgwin & Co., Pittsburgh, Pa., was low bidder with a bid of $755,700 for the West Mayfield Defense Housing Project for the Beaver County Housing Authority, Monaca, Pa. The work is for the U. S. Housing Authority. A. Martsolf, G. E. Trent and Bradley, Monaca, are architects for the work, while E. S. Tower, Pittsburgh, Pa., is engineer.

FEDERAL OFFICE BUILDING, Suitland, Md.
McCloskey & Co., Philadelphia, Pa., has been awarded the contract for constructing a federal office building for the Public Buildings Administration, Washington, D. C. The $2,749,000 contract will be carried out on a fixed-fee basis.

HOUSES, Millington, N. J.
National Gardens Homes Corp., New York, N. Y., will build 150 homes on Fairlawn Ave. under terms of a $750,000 contract. L. Kurtz, New York, N. Y., is architect for the project.

DREDGING, New York City.
Great Lakes Dredge & Dock Co., New York, N. Y., bid low for dredging 2,832,500 cu. yd. of material, excluding ledge rock, from the Liberty Island anchorage. Bids were opened by the U. S. Engineers, New York, and Great Lakes Dredge bid $1,271,226.

MOBILIZATION BUILDINGS, Fort Bragg, N. C.
V. P. Loftis Co., Inc., Charlotte, N. C., has been awarded a $857,050 contract for constructing 66 mobilization buildings and similar structures for the Constructing Quartermaster at Fort Bragg.

RUBBLESTONE BREAKWATER, Port Angeles, Wash.
Kern & Kibbe, Portland, Ore., and Guy F. Atkinson, San Francisco, Calif., were low bidders with a joint bid for constructing the rubblestone breakwater at Neah Bay near Port Angeles, when the U. S. Engineer, Seattle, opened bids Oct. 6. The low bid was $1,696,800, while the estimated cost was $1,141,000.

HOUSING, Rockford, Ill.
Winnebago County Housing Authority, Rockford, Ill., opened bids Oct. 6 for a 200-unit housing project. The low bidder was Paul Steenberg Construction Co., St. Paul, Minn., with a bid of $777,000. R. A. Orput, Rockford, is architect for the project.

DEFENSE HOUSING UNITS, Baltimore, Md.
Samuel Plato, Louisville, Ky., has been awarded a $1,199,000 contract for constructing 250 defense housing units for aircraft-workers at Sparrows Point. Public Buildings Administration, Washington, D. C., is doing the work.

AERODROME, Chicoutimi, Que.
The Canadian Department of National Defense for Air, Ottawa, Ont., took bids for constructing an aerodrome for the S.F.T. school. The lowest bidder was L. G. Ogilvie & Co., Montreal, Que. The work is estimated to cost $1,000,000.

AIRPORT RUNWAYS, etc., Valdosta, Ga.
U. S. Engineers, Jacksonville, Fla., have awarded a $1,257,355 contract to E. Jack Smith, Atlanta, Ga., for the runways, aprons, taxi-strips and drainage facilities at the advanced Flying School.

OLEUM PLANT, Copperhill, Tenn.
Tennessee Copper Co., New York, N. Y., has awarded the contract for the design and construction of an oleum plant, at East Tennessee Ordnance Works for the War Department to Leonard Construction Co., Chicago, Ill. Cost of construction is estimated at $2,038,844 and that for machinery and equipment at $1,302,000. The Tennessee Copper Co., will furnish the management services during construction and operate the plant, according to their contract with the War Department.

NOTE—Additional bidding and contract news on over 800 projects large and small appear in the Construction News sections beginning on page 15.

BRIEF NEWS

WHEN THE CITY of Bethlehem, Pa., on Oct. 1 placed in service its new mountain water supply 23 miles long (*ENR*, July 4, 1940, p. 36), a luncheon was held in that city on the site of the first municipal waterworks in America. Near the site stands a building constructed to house the waterworks offices from 1761 to 1832 but which is now a residence. A building erected in 1754 for a similar purpose has been destroyed. Robert L. Fox is city engineer at Bethlehem and he acted as chairman of the Bethlehem Water Authority, which built the new supply.

EARLY THIS MONTH a fire broke out in the formwork at the American end of the new Rainbow Bridge across the Niagara River at Niagara Falls and slightly damaged one of the reinforced-concrete arches forming the approach at that end. Firemen from the city of Niagara Falls, N. Y. soon had the blaze under control and there is no plan to change the opening date of Oct. 20.

CHARLESTON COUNTY, S. C. has purchased for $4,400,000 the highway bridge over the Cooper River and Town Creek in that county from Cooper River Bridge, Inc. The change in ownership occurred Sept. 29 and the county plans to sell the crossing to the state highway department to expedite the elimination of tolls. When the bridge was completed in 1929, it cost $5,750,000.

SALARY INCREASES ranging from 3 to 10 percent have gone into effect for Louisiana State Highway Department employees. This is to help prevent continued loss of employees, according to W. Prescott Foster, department director. The wage increase is varied so that those getting $75 per month get an increase of 10 percent while those getting $400 monthly get a 3 percent increase.

GOVERNOR SALTONSTALL of Massachusetts has asked the legislature of his state to enact legislation to make possible construction of pipelines on publicly owned land, along streets and through parks where there may be no present authority for granting such rights. State commissioners, department heads, county commissioners, aldermen and selectmen would be authorized to grant such permits under the law.

HON. T. D. BOUCHARD, Minister of Roads for the Province of Quebec, has ordered blanket prohibition of advertising signs or posters along several highways or sections of highways in his province.

New York parkway system increased by 3½ miles

On Oct. 11 opening ceremonies were held at New York City for the Hutchinson River Parkway extension. As shown by the photograph above, the new express route extends from the Bronx-Whitestone Bridge northward to the Hutchinson River Parkway, a distance of 3½ mi.

Designed to relieve traffic on Eastern Boulevard, the new route provides three lanes of traffic in each direction with the two roadways separated by a center island. The entire cost of construction, $7,148,000, was provided by the Triborough Bridge Authority, although the rights-of-way were acquired by the City of New York at the instance of the park department in 1938 with a capital budget expenditure. The state department of public works aided in planning and supervision of construction. Madigan-Hyland, New York, were consultants for the work and the project was carried out by general contract with a large number of contractors employed.

Massachusetts commences public-works study

Governor Saltonstall of the state of Massachusetts has appointed a Public Works Reserve Committee of five members to plan and coordinate a public works program. The purpose of all projects will be to supplant defense projects when activity subsides.

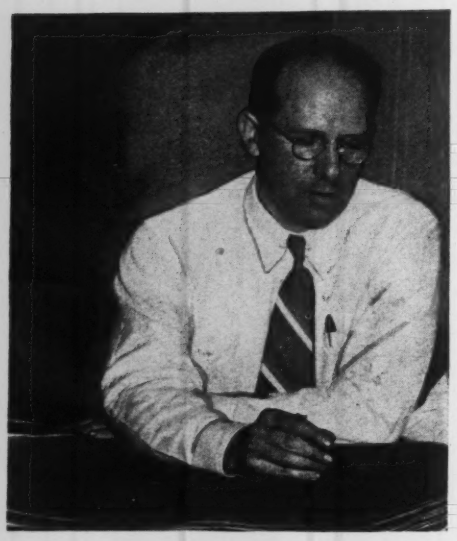
Patrick J. Moynihan is chairman of the group. Other members of the committee include: Hall Nichols, secretary of the Emergency Public Works Board; Herman A. MacDonald, state commissioner of public works; and Charles W. Greenough, state budget commissioner of Massachusetts.

Greenville Bridge tolls $160,000 in first year

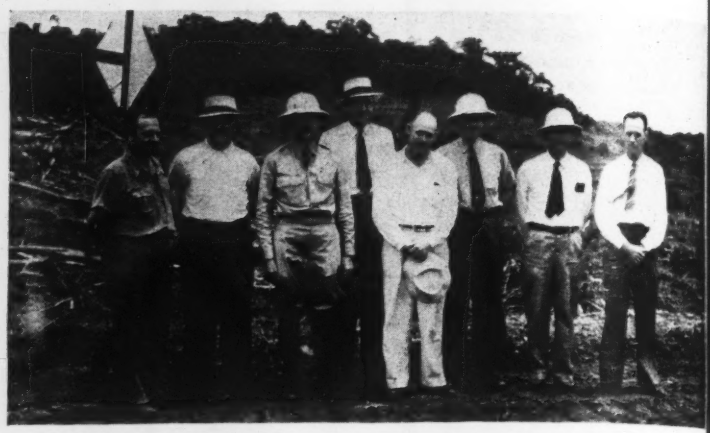
Regular revenues from the bridge across the Mississippi River at Greenville, Miss., totaled $159,844 during the first year of operation, which ended Oct. 5. In addition, the United States War Department paid $7,000 for transfer of 4,000 vehicles and 30,000 men across the bridge for participation in the recently ended war games in Louisiana.

The bridge, which was built by the city of Greenville at a cost of $4,447,000, was used by a total of 97,730 automobiles, 145,417 passengers, 20,503 trucks and 4,572 miscellaneous users during the first year of operation.

MEN AT WORK



Construction of a $30,000,000 ammunition plant at Ankeny, Iowa, requires lots of work on the part of RUDOLPH M. WEITZ, (above) for he is general manager for the contractors. That firm is made up of Weitz Co., Inc., and J. S. McLaughlin & Sons, both of Des Moines, and Central Engineering Co. and Priester Construction Co., both of Davenport.



Supervising construction of the third set of locks for the Panama Canal is the big job of the group above. They are left to right: M. R. MILLER, general superintendent for Panama Constructors; S. A. HEALEY, president of the contracting firm; COL. THOMAS B. LARKIN, supervising engineer of the special army engineering division; COL. JOSEPH C. MEHAFFEY, engineer of maintenance, U. S. Engineers; THOMAS M. PRICE, vice president of Panama Constructors; LT. COL. HANS KRAMER, assistant army supervising engineer; JOHN W. SIBERT, Jr., Pacific area engineer of the special engineering division; and E. E. ABBOTT, designing engineer, special engineering division.

O. B. BLIZZARD (left above), assistant project manager of the FWA defense housing project near Linden, N. J., shows GEORGE MALLEY, chief engineer of the New Jersey Work Projects Administration, the layout for water, sewer and utilities on the 107-acre site.

When ground was officially broken by the U. S. Engineers for Wolf Creek Dam on the Cumberland River in Kentucky, the first spadeful was removed by MAJ. BEN. JULIAN L. SCHLEY, then Chief of Engineers and now retired, as shown above. Looking on are, left to right: MAJ. O. E. WALSH, district engineer at Nashville, Tenn., and COL. C. L. HALL, of the Cincinnati, Ohio, office.

When the Orleans, Calif., Klamath River suspension bridge was dedicated as the most beautiful span of its class built in 1940, Howard A. Schirmer (right), district engineer, Bethlehem Steel Co., San Francisco, unveiled the commemorative plaque, which F. W. Panhorst, bridge engineer, California division of highways, accepted.

SPAB ruling not seen as construction ban

(Continued from p. 2)

ed. will stop private construction to uch an extent that serious unemploy- ent will result and many plants lie idle. here may be sections of the country here such restrictions are justified. owever, in this district, and I believe the greater part of the country, the btaining of essential materials and the ecessary labor for defense projects can e insured by proper district handling priorities. The initiative of the indi- idual and of commercial and industrial oncerns, upon which our economic sys- em is founded, will not function with uch an axe over the neck. If this com- lete ban is justified then there have been erious developments in the international ituation not yet told us. The rigid ban hould be either immediately removed, odified or restricted to those locations here its necessity can be demonstrated. —Ford J. Twaits, *Ford J. Twaits Co., Los Angeles, Calif.*

The SPAB ban on non-defense construction will play havoc with the construction industry if its restrictions are rigidly enforced and will hurt labor enormously. It sounds like a trial balloon. Publication of the ruling without warning already threatens embarrassment to us on two recently closed, but not yet started building contracts, and threatens a hold-up on two others about to be authorized. Personally I question the need for such drastic action. It is impossible to foresee the effect next year except pessimestically. —J. P. H. Perry, *vice president, Turner Construction Co., New York.*

While there will undoubtedly be numerous cases of inconvenience and even hardship caused by the ban of non-defense construction, it is defense work either direct or that which is necessitated by the primary defense work which is dominant in western Washington today, consequently the general effects will not be pronounced.—Homer M. Hadley, *Portland Cement Association, Seattle, Wash.*

It is hard to define non-defense construction as there are very many industries which produce materials that to say the least are borderline defense items, although they do not come in the direct list of ships, planes, tanks, etc. Am more concerned about the situation as a citizen than as a contractor because I feel that indiscriminate curtailment can easily be detrimental to what are now considered defense projects. Speaking from the construction standpoint, a sweeping ban on non-defense construction might curtail work in sight for this company by fifty percent.—Nick F. Helmers, *Nick F. Helmers, Inc., New York, N. Y.*

Consensus of opinion here is that the program for next year will be cut to minor construction and emergency maintenance, although financial arrangements would normally permit $2,500,000 of needed municipal improvements. This doesn't include private non-defense housing totalling several times above amount. Redesign of structures using substitute materials will help in this way. Believe private industry could proceed on restricted basis by better distribution of available materials without hurting defense program and help avert depression after war. Unless private industry survives tax bill cannot be paid.—J. C. Bisset, *city engineer, Dallas, Texas.*

Would anticipate as high as fifty percent reduction in sanitary work throughout the country or perhaps 200 million dollars annually. Some of this slack may be taken up by expanding defense areas and by military sanitary requirements. War is war and these deferments appear necessary. They will result too in post-war essentials when requirements for employment may be acute. Some hardships inevitably will occur.—Abel Wolman, *professor of sanitary engineering, Johns Hopkins University, Baltimore.*

I believe that the importance of defense priorities is generally recognized, but if the priorities are exercised to the extent of complete ban on non-defense construction, hardship and unemployment will result, possibly to the extent of crippling defense. I favor scrutiny of both timing of defense requirements as affecting deliveries and proposed construction so that best practical coordination will permit both to function. Much construction requires little defense materials.—Louis R. Howson, *Alvord, Burdick & Howson, consulting engineers, Chicago.*

I concur in general on the procedure outlined in the SPAB ban on non-defense construction if developed and applied intelligently. Much municipal work is brought to a head by defense activities and there is a considerable amount of municipal work directly related to national defense in our field of work. We have a considerable amount of municipal work caused by defense projects and some work not immediately associated with or adjacent to defense projects but stimulated somewhat by industrial activities and by desire to be prepared for civilian protection, especially in waterworks. We expect sufficient activity this year and into next year.—Samuel A. Greeley, *Greeley & Hansen, consulting engineers, Chicago.*

Paving construction and small house construction require very little of the critical materials, yet both are needed to maintain normal activities in non-defense areas. Surely Washington will remember that in 1918 a priority for freight cars was as valuable as a priority for steel and will not let a bottleneck develop in our transportation system. The road system of our country has made possible the handling of a greater tonnage than ever before without shortage of freight cars. The roads must be widened, extended and kept up. They are carrying a large share of the materials to defense plants. We should consider the effect not only on labor, not only on the factories and plants which are producing the less critical materials for this construction, but we should also consider the millions of dollars invested by the distributors in their stocks and warehouses and sales and service organizations. With the continuation of the type of building not requiring a large percentage of critical materials, they will be able to go forward. —Lion Gardiner, *vice president, The Jaeger Machine Co., Columbus.*

The ban on non-defense construction is not especially serious in our case since the major portion of our present activities relates to defense projects. Manufacture of paving plants and supplying repair parts to customers may have to be eliminated completely by our manufacturing division but sufficient defense subcontract work appears to be in sight for replacing this lost business to a considerable extent.—Charles R. Gow, *president, Warren Brothers Co., Boston.*

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Free lots available for Norfolk housing work

A group of patriotic citizens of Norfolk, Va. have purchased 5,000 lots in that city to be given to any out-of-town builders that will construct housing units in groups of 50 or more at a time, according to W. B. Shafer, Jr., chairman of the emergency housing committee of Norfolk. The plan is to aid the city of Norfolk to get 10,000 new homes which the city officials promised the Navy Department they would build during the next six months. Mr. Shafer reports that local builders are expected to build 5,000 homes, while by means of the free 5,000 lots out-of-town builders may be encouraged to build the other 5,000 units needed.

When the Navy recently started building two new shipyards, Mr. Shafer's organization promised the 10,000 new homes with the aid of the Federal Housing Authority. He reports that Norfolk's local builders have built 2,900 houses in the last year, but this is far from sufficient to keep up with Norfolk's increasing population, which has grown from 119,000 to 222,000 in two years.

MEN AND JOBS

Arthur S. Hobby, formerly state supervisor of the New Jersey WPA stream and waterways survey, has been appointed area planning engineer for New Jersey on the Public Work Reserve.

Hampton C. Reynolds, chairman of the city's planning board and consultant of the City of New Orleans in respect to regulatory activities of New Orleans Public Service, Inc., has resigned those positions because of injuries incurred in an automobile accident.

Maj. Charles H. McNutt, civil engineer, recently executive assistant at the U. S. Engineer office at Mobile, has been transferred to Fort Jackson, S. C.

A. W. Crawford, of the Ontario department of labor, and a graduate in engineering of the University of Toronto, has been appointed by Munitions Minister Howe as director-general of labor relations in the Canadian Department of Munitions and Supply. He replaces **Howard B. Chase,** who is doing other work in the Department. Mr. Crawford was formerly director of technical education for the Dominion department of labor, transferring to the same department of the Ontario government in 1928.

Waldo W. Wegner, former assistant city engineer at Cedar Falls, Iowa, has taken up new duties as assistant city engineer at Mason City. Mr. Wegner is a graduate of Iowa State College.

Robert T. Johnson has been granted a year's leave of absence from his position as Marion County engineer in Iowa to be engineer of the Knoxville, Iowa, water system. His Marion County work will be taken over by **B. W. Dutton,** who has been employed by the Iowa highway commission for thirteen years.

Mark W. Huggins has been appointed assistant professor of civil engineering at the University of Toronto. A graduate of the University of Toronto of 1932, Mr. Huggins has been on the civil engineering staff of Queen's University, Kingston, for the past three years.

Lt. Col. W. S. Wilson, secretary of the Faculty of Applied Science and Engineering of the University of Toronto, and officer commanding the auxiliary training battalion to the university C. O. T. C., has been promoted to assistant dean of the faculty. A graduate of the university in architecture, Col. Wilson served as a demonstrator in engineering drawing before becoming secretary of the engineering faculty in 1927, a post he has held since that time.

J. F. Pringle, general superintendent of the Southern Ontario district, with offices at Toronto, has been appointed chief of transportation for the Canadian National Railways, with headquarters at Montreal, according to **N. B. Walton,** vice-president of operation, construction and maintenance. In his new appointment Mr. Pringle will have supervision of all transportation matters generally throughout the entire system. He began his service with the Canadian National Railways in November, 1919, as an assistant engineer in the engineering department at Montreal and continued in that position until 1923, when he was made transportation engineer to the chief of transportation. In 1925 Mr. Pringle was made assistant to the chief of transportation and later in the same year was transferred to Toronto as assistant general transportation superintendent, becoming general superintendent in August, 1932. In 1936 he was named general superintendent, Southern Ontario district.

J. F. PRINGLE

Corwin Mocine, engineer of the San Mateo (Calif.) Planning Commission, has been appointed to act as local technician of the Virginia State Planning Board. He succeeds **Karl Tomfohrde,** now a planning engineer for TVA.

Charles E. Davis has been promoted from the post of assistant city engineer to city engineer at Spokane, Wash., succeeding the late **A. D. Butler.** A graduate of Colorado State College, he served as assistant city engineer of Canon City, Colo., and held positions with the Colorado Fuel & Iron Co. and with the American Smelting and Refining Co. in Salt Lake City, Utah, before joining the Spokane engineering department in 1908.

Paul Whiteis of Tulsa, Okla., now is stationed at Gastonia, N. C., as construction superintendent in charge of laying the Gaston County, N. C., link of the petroleum pipeline from Baton Rouge, La., to Greensboro, N. C. Mr. Whiteis will supervise the laying of the line over difficult terrain in the neighborhood of Kings Mountain.

H. F. Benton, of W[illegible]ster, Ohio, has gone to Liberia, West [illegible]rica, as one of several engineers emp[illegible]d by Firestone Plantations Co. to enl[illegible]ge an existing airfield for the Pan A[illegible]erican Airways.

S. A. Lacy, for the [illegible] three years Pickens County (Ala.) sanitary engineer, has gone to Montgomery, where he will be connected with the Sanitation Bureau, State Department of Health. He was succeeded by **J. J. Williams** of Athens, Ala.

Under the command of Lieut. **Charles Duke,** a portion of Company A, of the 30th U. S. Engineers, has been transferred from Wilson, N. C., to Edenton, N. C., to do topography work for the U. S. government. Company A, under the command of **Capt. O. G. Benson,** has been stationed at Wilson, N. C., doing topography work for the past year and a half.

Starr L. Pitzer, of Houston, Tex., has been named consulting engineer on the Dallas, Tex., staff of OPM, according to announcement by **A. J. Langford,** district manager. Mr. Pitzer reported for active duty Oct. 1.

Six members have been announced for an engineering committee of the defense industrial committee of Des Moines, formed by the mayor. They are Streets Commissioner **John Budd,** a former contractor; **Karl Kastberg,** civil engineer of the city streets department; **J. E. Van Liew,** president of the Des Moines Steel Co.; **Sigurd E. Anderson,** president of the New Monarch Machine & Stamping Co.; **O. W. Crowley,** secretary of the Associated General Contractors of Iowa, and **Ed Weatherly,** union business agent.

Alexander Scott, former division engineer with the Canadian National Railways at Charlottetown, P.E.I., now holds a similar position with the railways at Halifax, Nova Scotia.

J. A. P. Guenette, who graduated in civil engineering from Ecole Polytechnique, Montreal, in 1939, is at present assistant resident engineer for the Quebec Department of Roads in Montreal.

Allan F. Jones, assistant chief construction engineer of the Pennsylvania State Department of Property and Supplies, has been named head of a priorities agency set up by the state of Pennsylvania to facilitate efforts of the state purchasing agency to obtain construction materials.

J. C. Shepard of the U. S. Engineer office at Nashville, Tenn., is now on active military duty as first lieutenant at Key Field, Meridian, Miss.

nk O. Paulson, of Ridgewood, N. having resigned from his position as istant mechanical engineer with the lantic, Gulf and Pacific Co., plans to ctice as a consulting engineer spe- lizing in the dredging industry.

omas A. Jordan has been appointed assistant division engineer, western ision, of the American Bridge Co., icago, succeeding **F. W. Dencer,** who s retired after forty years of continu- s service. **Mr. Jordan** has been with e company since 1910. In 1930 he s made assistant engineer in charge design and remained in this capacity til receiving his present appointment.

cil E. Pearce has accepted a position head civil and hydraulic design engi- er for the light department of the city Tacoma, Wash., for the Second Nis- ually Power Development. Mr. Pearce a civil engineering graduate of Stan- rd University and previously was em- loyed on several western dam and ydro-electric projects. Most recently e was project design engineer for TVA the Hiwassee project, and senior ngineer with the U. S. Army Engi- eers at Denison, Tex., in connection ith the design of a powerhouse on e Denison Dam across the Red River ear Denison, Texas.

cott H. Bair has recently tendered is resignation as junior dam engineer ith the Pennsylvania department of orests and waters at Harrisburg to ac- ept a position as associate hydraulic ngineer with the Fish and Wildlife ervice of the U. S. Department of the nterior at Seattle, Wash. Mr. Bair is a civil engineering graduate from Penn- ylvania State College in 1933. He pent five years with the Bureau of eclamation at Denver, and for one year he was employed at the U. S. Engi- neer Office at Providence, R. I.

W. C. Olsen, Raleigh, N. C., consultant, on Oct. 2 was named planning and supervising engineer for an auxiliary electric generating plant to cost $1,500,- 000 which the city of High Point, N. C. is seeking to build. This job is as an auxiliary to the city's hydro-electric pro- ject, which long has been tied up in court litigation.

Nine men have been transferred tem- porarily from the Mobile, Ala., district to the Charleston, S. C., district, U. S. engineers, to do work in connection with a review of previous reports on the Santee, Yadkin, Peedee, Wateree and Congaree rivers to determine advisa- bility of improving conditions for navi- gation and for development of hydro- electric power. The men assigned to Charleston are: **Hugh A. Cousar,** as- sistant engineer; **Ralph M. Mueller** and **Harold M. Newman,** junior engineers; **Richard A. Eckstine,** assistant engineer- ing aide; **Louis V. Shepard, Jr.,** and **Kermit V. Boone, Jr.,** engineering aides; **Paul Thompson,** senior engineering aide, and **Travis J. Hall,** assistant engineer- ing aide.

Lewis B. Moore, office engineer, has been appointed assistant chief quarter- master in the supply department of the Canal Zone. Mr. Moore fills a position vacated by **L. W. Lewis,** who was pro- moted to the position held by **J. H. K. Humphrey,** first as- sistant chief quar- termaster, who re- tired from service at the end of June. Mr. Moore, a grad- uate in civil engi- neering from Rens- selaer Polytechnic Institute, has spent most of his life in the Canal Zone service. He was pro- moted through va- rious positions of that division to that of assistant engi- neer. In 1928 he resigned to accept an en- gineering position in Cali, Colombia, but returned to the Canal service in 1929 as assistant office engineer. In 1934 he was appointed chief of the plans section and in 1936, he became office engineer, in which position **Frank H. Irwin,** senior assistant office engineer, will succeed him. Mr. Irwin, a graduate of the Uni- versity of Minnesota, has been continu- ously employed by the Panama Canal since 1923.

L. B. MOORE

Robert W. Flack was appointed city manager of Charlotte, N. C., on Sept. 30. A civil engineer, Mr. Flack's first post as a city manager was at Springfield, Ohio. He left Springfield in 1929 to become city manager at Durham, N. C. He remained in Durham until 1935, when he was made city manager of San Diego, Calif. Later, he was called to Kansas City to assist in municipal af- fairs there.

H. I. Mulligan is now with the New Brunswick Electric Power Commission at Newcastle Creek, N. B. Since his graduation in civil engineering from McGill University in 1926, Mr. Mulligan has been engaged on several construc- tion projects, both as designer and as field engineer.

Henry H. Jewell has recently been appointed project director for Smith, Hinchman & Grylls, Inc., and Toltz, King & Day, Inc., for the construction of the Twin Cities Ordnance Plant at St. Paul, Minn. Formerly Mr. Jewell was office engineer for A. Guthrie & Co., Inc., and Al Johnson Construction Co., on the construction of an Iowa ordnance plant.

Lt. Col. Roy W. Leibsle has been named chief of the engineering branch of the Office of the Zone Constructing Quartermaster, Eighth Construction Zone, Fort Sam Houston, Tex. He suc- ceeds **E. N. Noyes,** who has resigned to take charge of the Corpus Christi office of his firm, Myers and Noyes, con- structing engineers of Dallas. **Major Carl T. Baer,** of Dallas, who has been on duty in the zone office since July, will head the engineering section of the branch. Lt. Col. Leibsle, Houston archi- tect, has been on active duty since Au- gust, 1940, and was the constructing quartermaster for Ellington Field at Houston until January, when he was transferred to Fort Sam Houston as zone architect. He will continue as head of the architectural section in addition to his duties as chief of engineering.

H. J. Hansen, field engineer for the Southern Pine Association, has joined the engineering staff of Tulane Univer- sity, New Orleans. Mr. Hansen will act as instructor on modern timber design, testing materials, hydraulics and soil mechanics. A graduate of Purdue Uni- versity, in 130, Mr. Hansen worked with the Indiana State Highway Commission, the Haskelite Mfg. Co., Butler Bros. and Edward Hines Lumber Co. before join- ing the Southern Pine Association in 1937.

Hite Gilbert, formerly with the state highway department of Tennessee, has been promoted to lieutenant commander at Portsmouth Navy Yard.

Capt. George Kumpe has been ordered transferred to Cleveland to become as- sistant to the U. S. division engineer in charge of the Great Lakes Division. Captain Kumpe has been assistant to **Maj. Fred T. Bass,** U. S. district engi- neer at Cincinnati.

Newlin D. Morgan recently resigned as structural designer in the bridge office of the New Mexico State Highway De- partment, Santa Fe, to accept a position as instructor in the department of civil engineering at Rutgers University, New Brunswick, N. J. Mr. Morgan, who graduated from the University of Illinois with a civil engineering degree in 1935, was bridge designer in the Wyoming State Highway Department from April 1937 to July 1939. He then joined the New Mexico department where he was employed until September 1940, when he took a nine-months' leave of absence to serve as first lieutenant in the U. S. Army Corps as assistant to the construct- ing quartermaster at San Antonio, Tex.

Hazard new head of construction safety group

W. A. Hazard, engineer of erection for the Bethlehem Steel Co., Bethlehem, Pa., was elected general chairman of the Construction Section, National Safety Council, at the 30th National Safety Congress in Chicago Oct. 6-10. The Construction Section held two half-day sessions at which some 500 delegates were in attendance. The program was largely devoted to papers and talking movies on large construction projects, emphasis being placed on safety programs at each job.

The projects covered included the Natchez Bridge foundations, described by G. O. Griffin, safety director, Dravo Corp., Pittsburgh; Golden Gate Bridge, by Mr. Hazard; Pennsylvania Turnpike, by C. R. Buohl, director of public relations, Pennsylvania Turnpike Commission, Harrisburg; Chicago subway, by V. E. Gunlock, construction engineer, Chicago Department of Subways and Superhighways; and army airbases in New England, by J. A. Riccio, safety engineer, Providence District, U. S. Engineers.

J. E. Jackman, safety director for McCrady-Rodgers Co., Pittsburgh, in discussing the safety engineer's problems in construction, stated that the biggest job is that of a salesman in that he must sell his organization on accident prevention, and see that everyone, from boss to laborer, looks at each job from the safety viewpoint as well as the production viewpoint. He also said that the foreman is the key to any safety program, for the foreman is the direct contact between management and labor on the job. Mr. Jackman believes that 95 percent of human failures, the largest cause of accidents, are the result of lack of cooperation between workmen, between workers and management, and even in management.

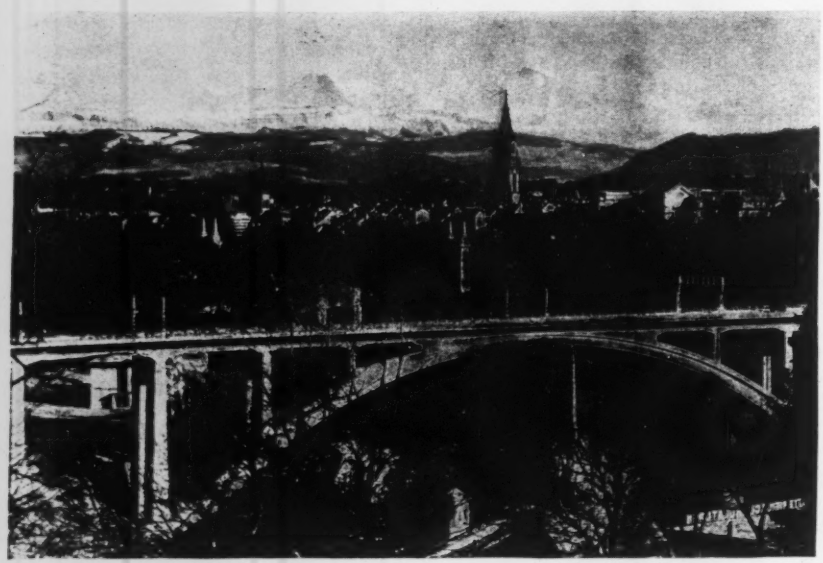
The 160-mile Pennsylvania Turnpike claimed nine lives of construction workers, stated Mr. Buohl, four men being killed by a single rock fall in Laurel Hill tunnel. However, this accident record is regarded as good for construction work of this type, where the man-hours of exposure reached 50,000,000. He told of the formation of a safety section in the engineering department of the commission at the start of the work. He also described in full the safety features designed and built into the Pennsylvania Turnpike.

A safety section was also organized at start of work on the Chicago subway, Mr. Gunlock reported, and each contractor was required by the specifications to employ a safety engineer. He told of the many precautions taken to prevent accidents on the tunnel work, including frequent inspection for dangerous gases, training of rescue squads, providing self-rescuing gas masks for every man in the he[illegible]gs at all t[illegible] and careful attention [illegible] compressed safety regulations. E[illegible]y workman the job had to pass a [illegible]ysical exam tion before employmen[illegible] and those w ing in compressed air were given sequent periodical exa[illegible]nations.

Mr. Riccio told of the safety w done by the U. S. Eng[illegible]eer Depart since 1934, when safe[illegible]y was offi made a part of all [illegible]onstruction cedure. Too many con[illegible]actors, he plained, regard safety as a nuis and calmly expect to kill one wo for every million dolla[illegible] worth of w Such contractors soon change their m on Corps of Engineers projects o don't get any more work, he sta The value of safety programs has clearly demonstrated on two recent in his district, where work aggregat over $1,000,000 has been carried without a single lost-time accident, though the projects were rushed u the emergency program. The be class of contractors are beginning t the value of safety work, he stated, a he cited instances where contract sought the advice of army engineers to safety on plant layouts and la plant design.

Other officers chosen

Other officers elected to the Const tion Section for the coming year a Vice-chairmen, for heavy constructi G. W. Maxon, Maxon Const. Co., D ton, Ohio; for highway constructi S. E. Anderson, Harrison Const. C Pittsburgh; for buildings, Lt. Col. W. Lorence, U. S. Engineer Dept., Wash ton. W. A. Snow, Associated Gene Contractors of America, Washing was re-elected secretary, and Edgar Goldstine, San Francisco, will edit Safety News Letter. Committee hea are: program, E. A. Blanpied, Kan City Bridge Co., Kansas City, Mo.; s tistics, C. H. Black, Stone & Webs Engineering Co., New York; educati H. H. Hayes, Tennessee Valley Auth ity, Chattanooga, Tenn.; and engine ing, R. J. Reigeluth, C. W. Blakes & Sons, New Haven, Conn.



Four-track Berne, Switzerland, bridge completed

To provide a four-track railroad crossing over the Aare River, a new reinforced-concrete arch span has been completed at Berne, Switzerland. The entire project is about one mile in length with the main arch span 492 ft. in length. Prior to opening the new crossing, which is known as the Lorraine Bridge, as a test the span was loaded with four locomotive trains, each train consisting of five steam locomotives. The structure was built by the bridge engineering department of the Swiss Federal Ry. It cost 14,000,000 Swiss francs.

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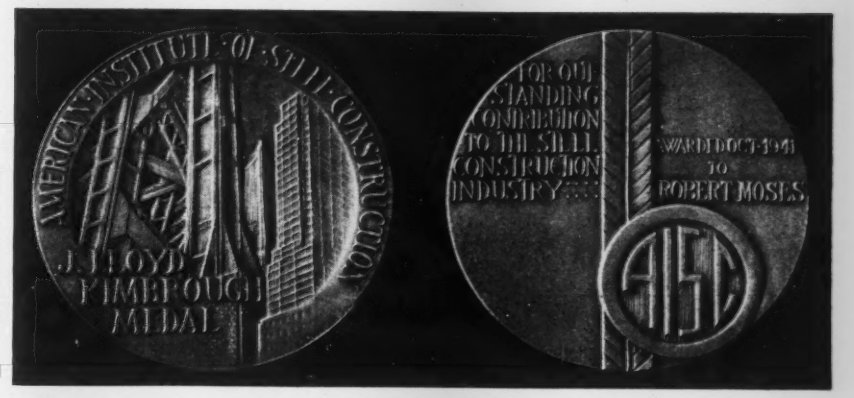
Utah road speed signs read lower at night

Motorists driving east from Wendo[illegible] Utah, on U.S. 40-50 during dayli[illegible] hours are asked to observe a speed li[illegible] of 60 miles per hour. However, if th[illegible] use the same stretch of highway af[illegible] dark, they will find the same s[illegible] reading 50 miles per hour. Explanati[illegible] is that the highway signs are so mark[illegible] that a higher speed limit is shown b[illegible] natural light than that by automo[illegible] headlights.

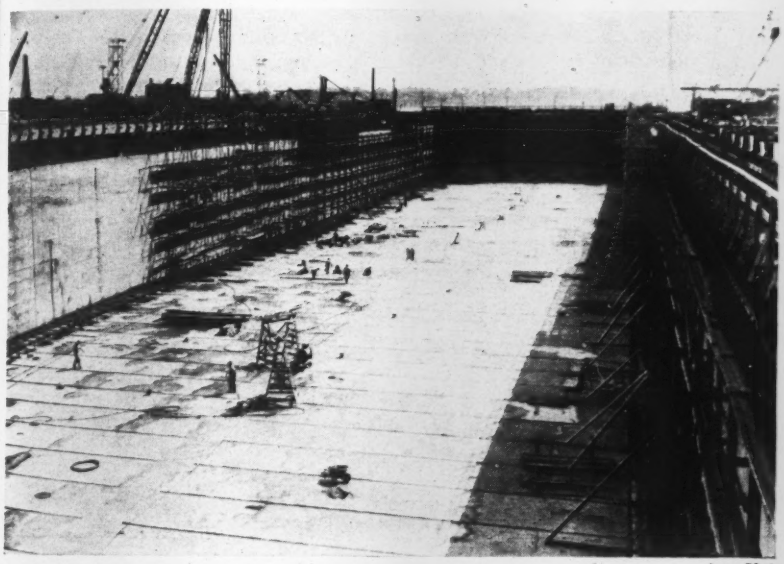
A. I. S. C. honors Moses with Kimbrough Medal

Inauguration of a new prize, the J. Lloyd Kimbrough Medal, by the American Institute of Steel Construction was celebrated this week at the annual convention of the Institute at White Sulphur Springs, W. Va., by making the first award to Robert Moses, commissioner of parks for New York City. The medal, of gold, is to be awarded periodically, at the discretion of the board of directors, to persons who have made outstanding contributions in promoting the usefulness of structural steel. It was conceived in memory of the late J. Lloyd Kimbrough, first president of the Institute and a leading figure in its founding about 20 years ago. Mr. Kimbrough, who was president of the Indiana Bridge Co., Muncie, Ind., died about 2 years ago in his early fifties. Despite the fact that his company was a relatively small one, he was able through his exceptional abilities to bring the entire steel fabricating industry together in an organization that has continued to command the support of its members and the respect of the civil engineering profession and the construction industry.


AMERICAN INSTITUTE OF STEEL CONSTRUCTION
J. LLOYD KIMBROUGH MEDAL
FOR OUTSTANDING CONTRIBUTION TO THE STEEL CONSTRUCTION INDUSTRY
AWARDED OCT. 1941 TO ROBERT MOSES
AISC

Inscriptions on medal given to Mr. Moses are as shown.

Mr. Moses, first recipient of the J. Lloyd Kimbrough Medal, has through foresight and energetic administration built a system of parkways and bridges in the New York metropolitan area that is unequaled anywhere in the world. And in the work structural steel has played a prominent part, as for example in the rigid frames beneath which the New York Central R.R. is carried under Riverside Park, in the Henry Hudson hingeless arch, the Triborough and Whitestone suspension spans and the Marine Parkway lift span, in many grade crossing structures and currently in the Gowanus Elevated Parkway in Brooklyn. Administering such a program was voted "an outstanding contribution to the structural steel industry."



Acme Photo

Drydock at Philadelphia approaches keel laying stage

Ships are usually built on ways and slid into the water but as their size increases this method of launching becomes increasingly dangerous. Two drydocks at Philadelphia, and a third at Norfolk, Va. costing about $15,000,000 each are under construction to permit building the Navy's largest ships on an even keel and then admitting water to the drydocks to float the ships off the keel blocks. The docks are all 1,100 ft. long 150 ft. wide inside, and those at Philadelphia, one of which is shown, have a depth over the sill of 33.8 ft.

Each of the docks at Philadelphia required placing more than 150,000 yd. of concrete under water, which was accomplished with a battery of eight tremie pipes mounted on a barge and fed by pumped concrete from a central plant on shore. The floor of the dock is 14 ft. thick, placed by tremie, and topped by 2 ft. 6 in. of concrete placed in the dry. Sidewalls, also tremie concrete, are 15 ft. thick with a veneer covering placed in the dry.

Part of one dock has been completed and a temporary cofferdam placed across it to permit early start of ship construction. The riverward end of the dock requires construction of a cofferdam to permit placing frames for sealing the floating gate, which will be opened when launching a ship.

Construction of the docks is being done by Dry Dock Associates composed of Spencer, White & Prentis, Inc., Foley Brothers, Inc., and Merritt-Chapman & Scott Corp. At the Philadelphia Navy Yard, Admiral A. E. Watson is commandant and Captain Gaylord Church is public works officer.

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Traffic signal makers get trade restraint charge

Six manufacturing corporations manufacturing traffic signals and traffic signal equipments and fittings have been charged by the Federal Trade Commission with entering into a combination and conspiracy to restrain and suppress competition in the manufacture and sale of those products. It is claimed that for the past several years the six companies manufactured and sold about 90 percent of all such products sold in the United States. The complaint, which grants the respondents 20 days for filing an answer, charges that for more than three years the respondents have engaged in an unlawful understanding, agreement and conspiracy to restrict competition between them and to restrain trade and create a monopoly. Prior to the adoption of the practices alleged in the complaint, these firms were considered in active and substantial competition.

The six respondents named are: Crouse-Hinds Co., Syracuse, N. Y.; General Electric Co., Schenectady, N. Y.; Eagle Signal Corporation, Moline, Ill.; Signal Service Corp., Elizabeth, N. J.; Automatic Signal Corp., East Norwalk, Conn.; and Horni Signal Mfg. Corp., 515 Greenwich St., New York.

House committee approves new road bill

No new money provided for strategic network, but available federal-aid funds would be used for such projects.

Continuing the creeping progress toward enactment of defense road legislation, Chairman Cartwright of the House Roads Committee last week introduced a bill differing in several important respects from the measure passed by the Senate in August (*ENR*, Aug. 21, p. 255), and differing also from the bill vetoed by the President last summer. The House Roads Committee has approved the bill just introduced by Chairman Cartwright.

The first road bill passed was vetoed by the President because he disapproved of the inclusion of $125,000,000 for improvements to the strategic highway network allocated among the states on the regular federal-aid formula. The Senate bill of August attempted to compromise with the President by cutting the amount to $75,000,000 and providing that $25,000,000 of that sum be distributed among the states without regard to allocation.

Chairman Cartwright's bill yields even farther to the Presidential position. It provides no new money for the strategic network, but offers an incentive to the states to concentrate their road programs on the network by providing that available federal-aid funds may be expended for such projects with the states contributing but 25 percent, rather than doing the work on the regular 50-50 basis.

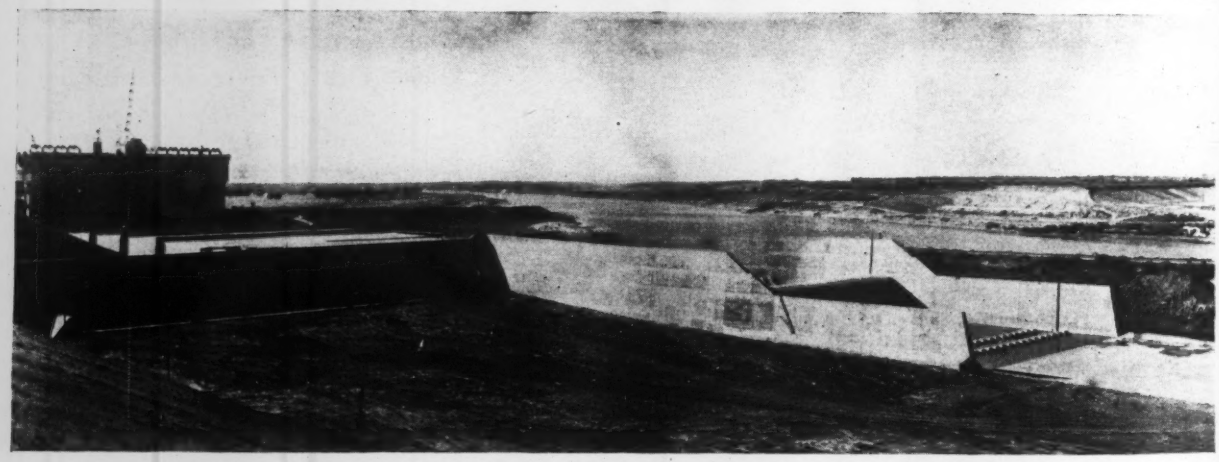
For federal construction of access roads, Chairman Cartwright would provide $150,000,000 rather than the Senate figure of $100,000,000. His bill agrees with the Senate version in providing $10,000,000, unmatched, for construction of flight strips by highway departments and in providing a like sum to be matched 50-50 by the states for advance planning of postwar improvements to the highway system. Chairman Cartwright returns to the vetoed bill in making provision for improved parking areas —a feature which was dropped by the Senate.

WASHINGTON HIGHLIGHTS

U. S. MARITIME COMMISSION is now studying more than 60 bids and designs for the construction of concrete barges which were received last month in answer to a bid advertisement (*ENR*, Sept. 4, 1941, p. 319). A considerable number of the proposals are regarded as promising by the Commission's technical staff. On the basis of these proposals, the Commission is now engaged in reaching a definite decision as to whether to build any concrete barges. If the decision is affirmative, the next step will be to select the best designs from among those submitted. The bids are non-competitive, and bidders were asked to submit designs as well as prices. Several different contractors will be selected.

SUPREME COURT review has been asked of an appeals court decision last month approving construction by the U. S. Engineers of the Bluestone Reservoir project on the New River in West Virginia. The project, for which funds are available, has been held up since 1935 by litigation over condemnation of land owned by the West Virginia Power Co. and the Norfolk & Western Ry.

IMMEDIATE CONSTRUCTION of the Berlin Dam on the Mahoning River near Alliance, Ohio, has been recommended to the War Department by the Office of Production Management. The dam, OPM said, is needed to regulate the flow of the Mahoning through the Youngstown area and thus insure the water supplies of the steel mills there—eight companies representing about 10 percent of the nation's steel capacity. Losses in production due to lack of water have been reported to OPM. Berlin Dam.



Concreting completed on Denison Dam outlet works

With about 230,000 cu. yd. in place, the concreting for the outlet works of the $48,290,000 Denison Dam on the Red River at Denison, Tex., has been completed. Except for the delivery and installation of the gantry for the operating deck of the intake structure, the entire outlet works contract will be completed the latter part of this month, about 70 days ahead of schedule.

At the left is shown the downstream end of the five powerhouse penstocks, while three similar conduits for flood control will empty into the stilling basin at the right. To the extreme right and across the river, earthfill is being placed for the main embankment.

On the front cover is shown the intake structure of the outlet works. It is 256 ft. wide, 76 ft. long, and 130 ft. high. The intake is made up of 1,500 individual monoliths, and in its interior are 16 service gates and 16 emergency gate wells in which 12 service gates and two emergency gates are to be installed. The gates are of the "caterpillar" type.

Excavation for the outlet works was carried out by the George W. Condon Co. and John Kerns Construction Co. Inc. Construction of the outlet was done by the C. F. Lytle Co.

The entire Denison Dam project is now about 25 percent completed and is expected to be finished on schedule during the summer of 1944. The main dam embankment has been under construction by the Guy F. Atkinson Co., since May 1940. The project is being carried out by the U. S. Engineer Office, Denison, Tex. For additional details of the work, see ENR *Feb. 27, 1941, p. 327.*

Congress studies failure to award Currier job

Decision as to what to do about awarding the contract for 300 defense houses in Wayne, Mich.—whether to risk upsetting the construction labor stabilization agreement by giving the award to the CIO-Organized Currier Lumber Co. (*ENR*, Oct. 9, p. 473) or to accept a bid some 50 percent higher than his—is being held up while Congress investigates the matter. Mr. Currier and his union, the Construction Workers Organizing Committee, were able to obtain a great deal of publicity for their grievance, and the Truman Committee is hearing testimony on the controversy.

To date the hearings have not developed anything which substantially modifies the situation as it appeared last week. As we go to press, Sidney Hillman, originator of the stabilization agreement, has not yet testified, but it is clear that the issue is the principle of open competitive bidding versus a policy aimed to ensure labor peace throughout defense construction.

Meanwhile, Assistant Attorney General Thurman Arnold, whose opinion had been asked by Federal Works Administrator Carmody, lined himself up in general in support of Mr. Currier. He said Administrator Carmody could not legally award the contract to the second bidder because of the labor policy of the contractor who bid low. Moreover, he said, if the contract is awarded and AFL unions in Michigan carry out their reported threat to go out on strike in protest he would be prepared to prosecute them under the antitrust laws. Presumably, under the Lanham Act, however, Mr. Carmody could legally reject all bids and negotiate a new contract without competitive bidding.

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Many reserve engineers now active with Navy

At the present time there are about 650 Civil Engineer Corps Reserve Officers on active duty with the U. S. Navy. The normal Civil Engineer Corps strength, as measured by the years preceding the present national emergency, was 126 to 133 men. Thus, there are now five reserve officers on duty for every regular officer.

Furthermore, the number of officers will probably continue to increase as commissions are conferred upon selected applicants. Prior to the emergency officers in the Corps were usually graduates of the U. S. Naval Academy who had taken post-graduate work in civil engineering at Rensselaer Polytechnic Institute or civil engineering graduates of recognized colleges who had received commissions only after intensive competitive examinations.

Some mechanical and electrical engineers are now being commissioned in the Civil Engineer Corps, which handles a highly diversified program encompassing all the fields of engineering.

Wide World Photo

Damage to Soo bridge less than anticipated

Damage to the north leaf of the double-leaf bascule bridge of the Duluth South Shore & Atlantic R.R. at Sault Ste. Marie, Mich., that fell into the canal on Oct. 7 (ENR Oct. 9, p. 475) was much less than anticipated at the time of the collapse. After the locomotive and cars had been removed from the span it was found possible to free the two spans by minor cutting of the members shown fouled in the above view. The south leaf was fully opened at 9:45 p.m. on Oct. 8 and the north leaf at 10:25 p.m. the same night, under their own power, thus clearing the south channel of the canal for navigation. The last submerged railway equipment and all floating working equipment was removed in the early afternoon of Oct. 10, and after sweeping the north channel the canal was opened for full operation that night. The time needed for bridge repair is unknown.

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Charles H. Paul dies; Dayton, Ohio, consultant

Charles H. Paul, civil engineering consultant of Dayton, Ohio, and a former chief engineer of the Miami Conservancy District, died Oct. 7 in Dayton, Ohio. He was in charge of construction of Arrowrock dam from 1911 to 1915. During recent years Mr. Paul had practiced as consultant for numerous dam projects, including Grand Coulee, Shasta, several of the Tennessee Valley Authority dams, and other well known projects.

Following work at Massachusetts Institute of Technology, Mr. Paul worked with the Massachusetts Board of Health, Boston Metropolitan Water Board, Philadelphia bureau of filtration, followed by twelve years with the U. S. Reclamation Service, now the Bureau of Reclamation. From 1915 to 1924 he was with the Miami (Ohio) Conservancy District as construction, assistant chief, and chief engineer. He left that organization in 1924 to enter private consulting practice in Dayton, Ohio. He served for four years on the Dayton City Commission.

Charles H. Paul

OBITUARY

VICTOR A. PECCHIA, assistant civil engineer for the Sanitary District of Chicago, died in that city Oct. 7 at the age of 47. Shortly after graduating from the University of Illinois in 1917 he joined the Corps of Engineers, U. S. Army. Upon his return from overseas, Mr. Pecchia worked for a short time with Pearse, Greeley and Hansen, Chicago engineering firm. He became associated with the Sanitary District in March, 1920, and was with that organization until his death. In recent years he was in charge of construction of numerous large projects and also was special engineer in connection with contractor's claims.

JAMES WRIGHT MARTIN, 53, of Little Rock, Ark., and assistant resident engineer inspector for the Public Works Administration, died Oct. 4.

THOMAS A. LEEPER, 40, of Elkin, N. C., district engineer for the North Carolina state highway department, died in Elkin Oct. 5. Mr. Leeper had been stationed at that city for the past 11 years.

J. CLINTON DAVIS, 64, consulting engineer and partner in the firm of J. B. Davis & Sons, Cleveland, died Oct. 2 in Cleveland. Following graduation from the Case School of Applied Science, he joined the J. B. Davis & Sons firm.

CHARLES D. HALE, 70, superintendent of the western division of the Montreal, Que., water department, died Sept. 30 in that city.

C. A. HEARTWELL, for many years engineer for Adams County, Neb., died recently in Hastings, Neb.

E. C. SEIBERT, 62, architect of Texarkana, Ark., and for many years with the firm of Witt, Seibert & Halsey, Texarkana, died Sept. 24.

PATRICK W. CLIFFORD, 82, head of the P. T. Clifford Construction Co., builders of several of the Chicago elevated lines, died recently in Valparaiso, Ind.

FRANK W. STARKEY, 51, office engineer for the Washington state highway department during construction of the Tacoma Narrows bridge, which collapsed Nov. 7 last year, died in Seattle, Wash., Oct. 7. Mr. Starkey also worked as construction engineer for the city of Seattle engineering department throughout the reconstruction of the Alaskan Way and as personnel director for the Austin Co. during that firm's work at the Sand Point naval air station near Seattle. His last position was that of production manager for the Associated Shipbuilders, Inc.

LIEUT. JOHN H. BUSCH, who retired from the Navy 20 years ago after acting as an instructor in engineering for several years at the U. S. Naval Academy, died in Philadelphia last week.

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Concreting soon to start for Keswick Dam project

Although the contract covering construction of the base of Keswick Dam on the Sacramento River in California was not awarded until Aug. 9, workmen are now preparing to pour the first concrete for this Central Valley project dam. Work is being done by the Guy F. Atkinson Co., lowest of three bidders with a bid of $2,736,628.

Keswick Dam will be 120 ft. high and 850 ft. long and located 9 miles downstream from Shasta Dam. It is being built by the Bureau of Reclamation to provide an afterbay regulating reservoir for the Shasta Dam power plant. For the Bureau Ralph Lowry is construction engineer and for the Atkinson firm E. M. Jennett is superintendent.

CONTRACTS AND CAPITAL

ENGINEERING CONSTRUCTION awards for the short week due to the Columbus Day holiday total $42,944,000, a sharp decline from the $78,661,000 reported a week ago, and from the $238,793,000 reported for the 1940 week. The volume for the week last year topped all previous weekly totals, and was the highest for the entire year.

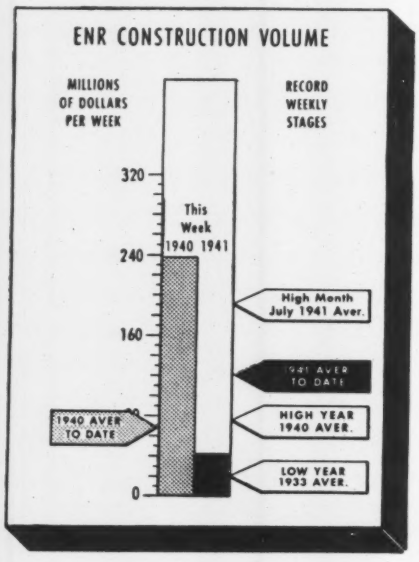
Private awards for the week are $12,345,000. Public construction totals $30,599,000, of which $15,258,000 is in state and municipal awards, and $15,341,000 is in federal work.

The week's total brings 1941 construction to $5,077,189,000, an increase of 74 percent over the 42-week volume last year. Private awards for the period, $1,009,407,000, are 19 percent higher than a year ago, and public construction, $4,067,782,000, is 97 percent higher than last year due to the 225 percent gain in federal work.

In the classified construction groups, gains over last week are reported in waterworks, sewerage, bridges, and commercial buildings. Increases over the 1940 week are in waterworks, and earthwork and drainage.

New capital for construction purposes for the week totals $17,290,000. This compares with $129,311,000 reported for the 1940 week. The current week's new financing is made up of $3,045,000 in state and municipal bond sales, $1,245,000 in corporate security issues, and $13,000,000 in RFC loans for private industrial plant expansion.

New construction financing for the year to date, $5,909,622,000, is 70 percent higher than in the corresponding 42-week period last year.



CONTRACTS

(Thousands of dollars)

	Week Ending Oct. 17 1940	Oct. 9 1941	Oct. 10 1941
Federal	$148,426	$32,980	$15,541
State & Municipal	24,169	32,075	15,258
Total public	$172,595	$65,055	$30,599
Total private	66,198	13,606	12,345
TOTALS	$238,793	$78,661	$42,944
Cumulative 1941 (42 weeks)			$5,077,189
Cumulative 1940 (42 weeks)			$2,926,744

Note: Minimum size projects included are: Waterworks and waterways projects, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	1940 42 weeks	Cumulative 1941 42 weeks
NON-FEDERAL	$1,238,111	$1,088,504
Corp. Securities	213,121	318,642
State & Mun.	424,853	363,626
U.S.H.A. loans	180,465	30,399
R.F.C. loans	195,672	107,336
R.E.A. loans	40,000	100,500
Federal Air—Hwy.	184,000	163,000
FEDERAL	$2,243,236	$4,826,118
TOTAL CAPITAL	$3,481,347	$5,909,622

FHA MORTGAGES

	Week Ending Oct. 12 1940	Oct. 4 1941	Oct. 11 1941
Selected for appraisal (Titles II and VI)	$26,891	$25,365	$26,805*
Cumulative 1941 (41 weeks)			$1,171,687*
Cumulative 1940 (41 weeks)			$1,039,813

* Subject to revision.

ENR INDEX NUMBERS

Index Base=100		1913	1926
Construction Cost	Oct. '41	264.46	127.13
Building Cost	Oct. '41	215.92	116.7
Volume	Sept. '41	419	184

CONTRACT UNIT PRICES

What contractors are bidding on different kinds of construction work

ST. LUCIE DAM FLORIDA

OWNER: U. S. Engineer Office, Jacksonville, Fla.

PROJECT: Construction of St. Lucie Dam at St. Lucie Lock on St. Lucie Canal, near Stuart, Fla. Involves construction of diversion channel, earth diversion dam, and concrete diversion spillway; cofferdams, including maintenance and removal; cleaning site and alteration of existing structures; structure excavation, fill, protective dikes and ditches; foundation piling and steel sheet piling walls; concrete masonry; stone protection work; auxiliary lock gate; seven taintor gates; taintor gate operating machinery; emergency bulkheads and hoist; hydroelectric power house; dam electrical system; hydroelectric generator unit; and other miscellaneous items.

CONDITIONS: Contractor to furnish all materials and complete work in 480 calendar days. Highway and water transportation facilities available at site of work, and railway facilities at Stuart, Port Mayaca, and Indian Town, Fla. Wage rates are: skilled labor, $1.00 to $1.50 per hr.; semi-skilled, 60 to 82½c.; and common, 40c.

BIDS: Five bids were received August 19, 1941 ranging from the contract low of $571,134 to $956,838. Engineer's estimate, $562,245. Awarded September 9.

LIST OF BIDDERS:

1. V. P. Loftis Co., Charlotte, N. C. (contract) $571,134
2. Spadaro Contracting Co., Sarasota, Fla. 593,253
3. E. H. Latham Co., West Palm Beach, Fla. 728,565
4. Cleary Bros. Constr. Co., West Palm Beach, Fla. 772,197
5. Badgett Constr. Co., Memphis, Tenn. 956,838

Item	Quan.	Unit Prices (1)	(2)	(3)
1. Clearing	L. S.	$9,000.00	$4,400.00	$8,747.26
2. Cofferdam; diversion spillway	143 l. f.	60.00	75.00	30.50
3. Cofferdam; dam	427.12 l. f.	125.00	150.00	333.20
4. Excavation; structure	19,000 c. y.	.50	1.25	.687
5. Excavation; diversion channel	60,700 c. y.	.20	.60	.29
6. Excavation; drainage ditch	3,200 c. y.	.20	.60	.29
7. Embankment; dike	68,200 c. y.	.20	.40	.218
8. Embankment; diversion dam	17,600 c. y.	.20	.40	.218
9. Fill	3,600 c. y.	.20	.40	.36
10. Remove existing concrete	505 c. y.	5.00	6.00	29.08
11. Piling; timber foundation	28,300 l. f.	.50	1.00	.605
12. Piling; steel sheet, cut-off walls	20,420 s. f.	1.30	1.50	1.50
13. Piling; steel sheet, extended Z type	1,103 s. f.	1.80	3.00	2.28
14. Piling; steel sheet, deep-arch	1,560 s. f.	1.60	3.00	2.21
15. Yellow pine timber; creosoted	1,275 f. bm.	.25	.20	.36
16. Stone riprap	5,300 c. y.	7.00	5.00	4.217
17. Crushed stone	1,300 c. y.	5.00	5.00	4.65
18. Class A concrete	810 c. y.	30.00	35.00	31.61
19. Class B concrete	6,550 c. y.	20.00	21.00	20.61
20. Concrete; slushing	400 c. y.	15.00	16.00	15.515
21. Steel; struct., phosphor. chromium, Taintor gates	100,25 lb.	.27	.10	.2311
22. Steel; struct., phosphor. chromium, auxiliary lock gate	28,850 lb.	.30	.10	.2544
23. Steel; as above, fixed member	108,080 lb.	.28	.10	.2544
24. Steel; as above, bulkheads	9,325 lb.	.26	.10	.2311
25. Structural steel	41,670 lb.	.17	.10	.2311
26. Rail; bulkhead hoist track	11,500 lb.	.15	.09	.1195
27. Steel; tie-rods, nuts, turnbuckles, pins	3,345 lb.	.33	.10	.26
28. Steel; corrosion-resisting	1,110 lb.	.54	.70	2.035
29. Concrete reinforcing steel	321,000 lb.	.09	.05	.069
30. Castings; steel	10,115 lb.	.25	.18	.288
31. Castings; iron	4,390 lb.	.22	.12	.2268
32. Bolts and nuts; steel	11,670 lb.	.34	.10	.2513
33. Forgings; nickle steel	7,425 lb.	.40	.28	.90
34. Bronze	2,090 lb.	.50	.74	1.27
35. Lead	3,955 lb.	.25	.18	.225
36. Copper-sealing strip	3,440 lb.	.35	1.00	1.236
37. Rubber seals; molded	1,415 lb.	.60	.60	1.716
38. Handrail; type A	122 l. f.	4.75	3.00	4.36
39. Handrail; type B	260 l. f.	3.50	2.75	2.18
40. Handrail; type C	980 l. f.	4.50	2.50	3.78
41. Indicator gages; taintor gate position	7 ea.	125.00	25.00	122.60
42. Lubrication systems; taintor and aux. lock gates	L. S.	500.00	200.00	980.80
43. Equalizing valves, 10x10-in	2 ea.	200.00	90.00	436.20
44. Power house substr. drainage system	L. S.	800.00	3,000.00	722.64
45. Pressure relief drain (assembly)	L. S.	300.00	100.00	1.00
46. 10-in. corr. metal pipe	48 l. f.	3.00	5.00	2.91
47. Extend existing water systems	L. S.	800.00	1,640.00	436.20
48. Install 24-in. metal culvert pipe	L. S.	500.00	1,150.00	218.10
49. Drill 1¼-in. anchor holes	30 l. f.	1.00	4.00	2.78
50. Drill 6-in. pressure relief vents	45 l. f.	3.00	10.00	8.72
51. Hydroelectric power house	L. S.	8,000.00	8,000.00	4,545.85
52. Taintor gate operating mach'y., mechanical equipment	L. S.	10,000.00	28,000.00	44,871.60
53. As above; electrical equipment	L. S.	2,500.00	4,200.00	16,027.83
54. Bulkhead hoist car	1 ea.	5,000.00	1,800.00	5,884.80
55. Power house crane	1 ea.	1,500.00	1,500.00	2,181.00
56. Hydroelectric unit	L. S.	24,750.00	10,000.00	31,655.20
57. Conduit system	L. S.	3,000.00	3,500.00	3,799.06
58. Switchboard	L. S.	6,500.00	3,700.00	9,019.39
59. Dam power feeders and connections	L. S.	1,500.00	1,200.00	346.12
60. Lighting system	L. S.	6,000.00	3,800.00	3,752.31
61. Grounding system	L. S.	500.00	1,200.00	591.15
62. Hydroelectric power house; central control station interconnecting cables	L. S.	2,000.00	1,800.00	2,113.97
63. Remove existing riprap	2,000 c. y.	1.50	1.00	1.454

CONCRETE PAVEMENT, KANSAS

OWNER: State Highway Commission of Kansas, Osawatomie, Kan.; R. B. Wills, State Highway Engineer.

PROJECT: Construction of 0.283 miles of concrete pavement in Osawatomie, Kan. (Part I) and 2.594 miles of concrete pavement north from Osawatomie, Miami County, Kan. (Part II).

CONDITIONS: Contractor to furnish all materials and complete work in 85 working days. Rail and highway transportation facilities available. Minimum wage rates are: skilled labor, 65c. per hr.; semi-skilled, 50c.; and common, 40c.

BIDS: Five bids were received on Part I August 27, 1941, ranging from the contract low of $28.217 to $33.861. Five bids also received on the same date for Part II. They range from $84,825 to $94,728.

Part I—In Osawatomie, Kan.

LIST OF BIDDERS:

1. C. J. McCoy, Emporia, Kan. (contract) $28,217
2. Geiger & Rutherford, Leavenworth, Kan 29,167
3. Stannard Constr. Co., Wichita, Kan 29,730
4. Harrison Engr. & Constr. Corp., Kansas City, Mo 30,839
5. Western Contracting Corp., Sioux City, Iowa 33,861

Item	Quan.	Unit Prices (1)	(2)	(3)
1. Common excavation	650 c. y.	$0.40	$0.50	$0.30
2. Conc. pavement, 6-in. uniform	54 7 s. y.	2.15	1.75	2.20
3. Conc. pavement, 7-in. uniform	5,325 2 s. y.	2.25	2.35	2.36
4. Conc. pavement, 9-in. uniform	31 8 s. y.	4.00	2.65	4.50
5. Conc. pavement, 9-7-9-in	2,795 3 s. y.	2.25	2.35	2.36
6. Remove, relay bit. filled brick pavmt	200 s. y.	3.00	1.00	2.00
7. 12-in. storm sewers	126 l. f.	2.00	1.30	2.00
8. 15-in. storm sewers	192 l. f.	2.50	2.10	2.50
9. 24-in. storm sewers	1,442 l. f.	3.00	3.40	3.75
10. Comb. curb and gutter, type I	1,413 4 l. f.	1.00	1.00	.90
11. Comb. curb and gutter, type II	211 4 l. f.	1.25	1.10	1.00
12. Reinforced concrete manholes	4 ea.	100.00	75.00	60.00
13. Inlets, type A-5	4 ea.	75.00	125.00	100.00
14. Inlets, type A-7. 5	2 ea.	90.00	175.00	150.00
15. Steel plate guard fence	150 l. f.	1.00	1.05	1.00
16. Sidewalk construction, 4-in	500 s. y.	2.00	1.60	1.75
17. Sidewalk construction, 6-in	35 8 s. y.	2.10	2.20	2.00
18. Surfacing material	24 c. y.	.....	3.20	2.00

Part II—North of Osawatomie, Kan.

LIST OF BIDDERS:

1. C. J. McCoy, Emporia, Kan. (contract) $84,825
2. Geiger & Rutherford, Leavenworth, Kan 85,621
3. Harrison Engr. & Constr. Corp., Kansas City, Mo 86,774
4. Stannard Constr. Co., Wichita, Kan 87,790
5. Western Contracting Corp., Sioux City, Iowa 94,728

Item	Quan.	Unit Prices (1)	(2)	(3)
1. Common excavation	9,550 c. y.	$0.40	$0.50	$0.20
2. Concrete pavement, 9-in. uniform	219 7 s. y.	4.00	2.65	4.00
3. Conc. pavement, 9-7-9-in	34,679 9 s. y.	2.25	2.25	2.35
4. Steel plate guard fence	1,650 l. f.	1.00	1.05	1.10
5. Wood guide posts	61 ea.	1.00	2.00	2.00
6. Surfacing material	50 c. y.	2.50	3.20	3.06
7. Reflectorized advance warning signs	2 ea.	30.00	25.00	50.00
8. Reflectorized R. R. crossing signs	2 ea.	100.00	85.00	150.00

CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York
ELSIE EAVES, Manager *SCOTT McLEOD, Statistician*
(Daily service also available—Write for details)

Location of ENR Correspondents

Symbols and Abbreviations Include:

† Federal Government
★ Project of $500,000 or over
ENR Engineering News-Record
CD Engineering News-Record Construction Daily

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger; water supply, earthwork, waterworks, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Named in order of Listing)

Water Supply — Unclassified
Sewers, Waste Disposal — Latin America
Bridges, Grade Cross'gs — Public Buildings
Streets & Roads — Commercial Buildings
Earthwork, Waterways — Industrial Buildings

Stages Reported

PROPOSED: (except Streets & Roads):

BIDS ASKED (new announcements only. For full calendar, see also preceding issues of ENR);

LOW BIDDERS: All low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

WATER SUPPLY

PROPOSED WORK

†Ala., Florence—City, 2 m.g.d. water filtration plant, repairing water intake, 2 pumps, altering filtration plant, Docket Ala. 1-145. $84,150. **DPW.**

Ark., Little Rock—North Heights Water Dist. 4, c/o Lund-Muehlburgher Eng. Co., engrs., 801 E. Markham St., imprv. water sys. $97,197. Seeking federal aid.

Ark., Little Rock—Water and Light Dist. 1, exten. watermains, imprv. reservoir. $54,417. Applied for federal aid. Lund-Muehlburgher Eng. Co., 801 E. Markham St., engrs. CD 7/30—ENR 8/7.

Calif., San Diego—Rejected bids Sept. 24, strengthening San Dieguito Dam. F. D. Pyle, City Hall, engr. CD 9/30—ENR 10/2, under LB.

★**†Calif., San Diego** — City, 6 pipe lines, storage reservoir, elevated storage tank, etc., Docket Calif. 4-140. $2,071,000. **DPW.**

†Ga., Macon—City, 3 mg. clear well, additional filters, pipelines, elevated tanks, equip. etc., Docket Ga. 9-117. $488,120. **DPW.** Wiedman & Singleton, Candler Bldg., Atlanta, engrs. CD 10/6—ENR 10/9.

Idaho, Shoshone—$70,000 bond election soon, reconstructing water sys. R. J. Briggs, Robert Noble Bldg., Boise, engr. CD 10/2—ENR 10/9.

Ill., Charleston—E. Wimmer, mayor, dam, mouth of Whetstone Creek and constructing artificial lake for reservoir. Over $15,000.

†Ind., Knox—Knox Water & Light Co., well, pump house, elevated tank and water distr. mains, Docket Ind. 12-116. $37,425. **DPW.**

Ky., Louisville—Dpt. P. Wks., Louisville, WW. $100,000. Applying for WPA funds.

†Kan., Junction City—City, exten. c.i. water distr. sys., Docket Kan. 14-134. $76,250. **DPW.**

†La., Oakdale—City, exten. water supply and distr. sys. and to sewage collection sys., Docket La. 16-103. $285,000. **DPW.**

†La., Pineville—R. C. Lawrence, mayor, water and sewerage sys. extens., Docket La. 16-129. $308,000. **DPW.** H. B. L'Heureux, Alexandria, engr. CD 10/7—ENR 10/9.

†Miss., Biloxi—City, imprv. water sys., well, reservoir, pump. stations, mains, etc., Docket Miss. 22-111. $190,000. **DPW.** CD 8/8—ENR 8/14.

†Mo., Rolla — City, purchasing privately owned water sys., laying new mains, tank, wells, etc., Docket Mo. 23-107. $293,130. **DPW.**

★**N. H., Portsmouth** — Water Dpt., 126 Daniels St., plans nearing completion filtration plant, dam, supply lines, distr. sys. $857,000. Whitman & Howard, 89 Broad St., Boston, Mass., engrs.

N. J., Bellmawr—Boro, water supply and distr. sys. $106,000. W. MacNamara, 101 N. 7 St., Camden, engr.

N. J., Glen Rock (br. Ridgewood)—Boro, Boro Hall, connecting watermain from Wanaque sys. to Boro's sys. $32,000. F. M. Evans, Boro Hall, engr.

†N. C., Spring Lake—Spring Lake Sanitary Dist., water supply and distr. sys., Docket C. N. 31-145. $121,000. **DPW.**

★**†O., Canton**—City, imprv. WW sys., impounding reservoir, water treatment plant, pump. equip. $2,672,991. **DPW.** CD 8/12—ESR 8/14.

Tenn., Copperhill—Water and sewerage sys. $100,000.

Tenn., Manchester—T. A. Johnson, mayor, WW and sewers. $370,000. W. L. Picton, Amer. Natl. Bank Bldg., Nashville, engr. CD 10/1—ENR 10/9.

†Tenn., Milam—Mayor and Bd. Aldermen, WW sys. extens., addns., Docket Tenn. 40-112. $176,000. **DPW.** CD 10/1—ENR 10/9.

Tex., Brazoria—Brazoria Co. Water Control & Imprv. Dist. 1, voted $60,000 bonds, WW. $120,000. Applied for DPW gr. CD 10/9—ENR 10/9.

†Tex., Galveston—Galveston County Water Control & Imprvt. Dist. 31, WW sys., near here, Docket Tex. 41-265. $140,000. **DPW.**

Tex., Odessa—R. T. Waddell, mayor, WW sys. imprvs. $364,000. $75,000 bonds voted. Applied for DPW gr. O. G. Lee, Odessa. engr. CD 9/12—ENR 9/18.

Tex., Sherman—R. L. Hall, mayor, WW exten. $20,906. Applied for DPW funds. Koch & Fowler, Great National Life Bldg., Dallas, engrs. CD 10/1—ENR 10/9.

Wash., Seattle—Watermains, 45 Ave. S.W. $37,529. C. L. Wartelle, County-City Bldg., engr.

Wash., Seattle—King Co. Water Dist. 61, rebuilding, exten. domestic water distr. sys., installing fire hydrants. White Center Dist., south of here. $118,000. Parker & Hill, Smith Tower, engrs.

†Wash., Tacoma—Pierce County Fire Dist. 2 (on behalf Water District to be formed), WW sys., also acquisition and imprv. 2 distr. sys., Docket Wash. 45-129. $403,057. **DPW.** CD 8/1—ENR 8/7.

Ont., Petawawa—Dominion Govt., Ottawa, watermains. $28,000. Dpt. Munitions & Supply, Ottawa, engrs.

Ont., St. Marys—WW imprvs. and hydrant installation. $20,000. Pub. Utilities Comn., Town Hall, engrs.

BIDS ASKED

Bids Asked October 20

Ill., Chicago—O. E. Hewitt, comr. P. Wks., City Hall, tunnel connections to Southwest Land Tunnel Sys., South Dist. filtration plant. vicinity 79 St. and Lake Michigan; adv. ENR 10/16.

Md., Towson—Comrs. Baltimore Co., Towson, water mains, 10,600 lin. ft. c.i. water mains, vicinity Battle Grove on Old and New Battle Grove Rds., 4,700 lin. ft. 6 and 8 in. c.i. water mains and 5,850 lin. ft. 6 and 8 in. vitr. sewer pipe, sub-division of Eastern Terrace, Essex, 6,800 lin. ft. 6 and 8 in. vitr. sewer, sub-division of West Hills, Catonsville. H. Streett Baldwin, pres. S. A. Green Court House, ch. engr.

Pa., Cambridge Springs—Boro, Marjore R. Conroy, secy., 1 story, brick, filter plant imprvs. Hill & Hill, Main St., North East, engrs.

Bids Asked October 24

†Utah, Ogden—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif. Pump. Plant 3, Hill Field. Over $15,000.

Bids Asked About November 1

Wash., Longview—Water filt. plant, $1,000,000. J. W. Cunningham, Equitable Bldg., Portland, engr. CD 5/2—ENR 5/8.

Bids Asked November 3

†Va., Newport News—Water supply sys., $1,148,000. **DPW.** Newsom & Aldrich, 500 Ave., New York, N. Y., engrs. CD 9/4—ENR 9/11.

LOW BIDDERS

†Calif., Santa Ana — U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., 1 elevated steel water tank, West Coast Replacement Center, from Darby Products Steel Plate Corp., 1 and Walker Sts., Kansas City, Kan. **$62,333.** CD 9/22.

CONTRACTS AWARDED

Calif., Vallejo—2,476 lin. ft. 20-in. c.i. water supply pipe line, etc., to Underground Constr. Co., 354 Hobart St., Oakland. $15,593. CD 10/11—ENR 10/9.

Ia., Agency—H. L. Creamer, city clk., WW sys. **WPA. $40,000.** R. W. Gearhart, 249 21 St. S.E., Cedar Rapids, engr.

Ia., Paullina—WW imprvs., 100,000 gal. reservoir, to Jensen & Krage, 209 Wright Bldg., Sioux City. **$15,000.** Bids 9/22. CD 8/26—ENR 8/28.

N. Y., Jamestown—Bd. Pub. Utilities, T. V. McKee, secy., City Hall, replacing c.i. water mains, E. 2 St., changing ornamental lighting sys., own forces. **$15,000.** C. O. Johnson, supt. CD 9/17—ENR 9/25.

N. C., Greensboro—Proximity Mfg. Co., A. G. Goodwin, purch. agt., Greensboro WW imprvs. to Hobbs-Peabody Constr. Co. Inc., 317 W. Worthington Ave., Charlotte. **$135,000.** Bids 9/30. CD 7/8—ENR 7/10.

Ore., Forest Grove—Imprv. water distr. and sanitary sewerage sys. **WPA. $126,911.** CD 8/12—ENR 8/14.

Wyo., Riverton—E. H. Steffy, city clk., exten. water mains, sanitary sewers. **WPA. $90,988.** I. D. Woodward, city engr. CD 5/27—ENR 6/5.

Alta., Pearce—Dpt. National Defense for Air, Ottawa, Ont., water and sewerage sys. Elementary Flying Training School to Poole Constr. Co. Ltd., 733 Tegler Bldg., Edmonton. **$35,000.**

†T. H., Fort Kamehameha—Con. Q.M. Hawaiian Dpt., Fort Shafter, rehabilitating water sys., to J. F. Nichols, 2122 N. King St., Honolulu, **$35,490.** Awarded 9/25.

SEWERS, WASTE DISPOSAL

PROPOSED WORK

Ala., Jacksonville—Sewers, J. W. Goodwin, Martin Bldg., Birmingham, engr.

Ala., Sylacauga—Sewage treatment plant, $275,000. J. W. Goodwin Eng. Co., Martin Bldg., Birmingham, engr.

Calif., Los Angeles—Bd. P. Wks., sanitary sewers, Rose Ave. and Kelton Ave., Sewer Dist. $35,737. L. Aldrich, City Hall, engr.

Calif., Riverside — City Council retained Headman, Ferguson & Carollo, engrs., 319 Homebuilders Bldg., Phoenix, Ariz., to prepare alternate estimates 3 types sewage treatment plants and to act as consultants for city. Over $25,000.

Calif., Ventura—City, City Hall and Ventura Co., Court House, storm drains, here and vicinity (6 projects). Over $25,000. C. Froerer, city engr. R. L. Ryan, Court House, co. engr.

Conn., Middletown—S. G. Cannon, supt. P. Wks., City Hall, brick sewage disposal plant, Town Farm site. $30,000.

†Ind., Charlestown—Town, sewerage sys., acquisition, addns., extens., Docket Ind. 12-140. $120,000. **DPW.** CD 9/10—ENR 9/18.

†Ky., Vine Grove—Town, sanitary sewerage sys., disposal plant, Docket Ky. 13-136. $76,584. **DPW.**

†Md., Towson—Baltimore County Metropolitan Dist., sewerage sys. addn., imprvs., force main for Essex Sewage Pump. Station, Docket Md. 18-101. $155,000. **DPW.**

★**†Miss., Biloxi**—City, sanitary sewerage sys., sewage treatment and disposal plant, etc. Docket Miss. 22-101. $1,356,000. **DPW.**

Mo., Joplin—J. J. Saunders, city comr., preliminary plans sewage disposal plant. $400,000. H. T. Lawrence, 3244 NW 14 St., Oklahoma City, Okla., engr.

SEWERS, etc. (Proposed Work, Cont'd.)

†**N. H., Portsmouth**—City, sewers, exten. & outlets, Docket N.H. 27-108. $150,806. **DPW.**

N. J., Newark—Dpt. P. Wks., City Hall, sanitary facilities, drainage sys., sheeting, $55,000. WPA. C. Malstrom, Route 25. Orange and N. 6 Sts., owner's and WPA engr.

†**N. C., Spring Lake**—Spring Lake Sanitary Dist., sewerage sys., treatment plant, Docket N.C. 31-144. $117,000. **DPW.**

†**Okla., Dawson**—Town, sanitary sewerage sys., Docket Okla. 34-102. $72,600. **DPW.** Wood & Craig, 308A Philtower Bldg., Tulsa, engrs.

Pa., Allentown—Plans bond election, sanitary sewers in newly created Sewer Dist. 26, 12 Ward. $70,000. E. Mackley, city engr.

†**Tenn., Milan**—Mayor and Bd. Aldermen, sanitary sewerage sys., extens., addns., Docket Tenn. 40-113, $224,500. **DPW.**

Tenn., Winchester—Refuse incinerator. $30,000. Applied for DPW gr. and loan. W. L. Picton, 711 Amer. Bank Bldg., Nashville, engr. CD 8/28—ENR 9/4.

★**Tex., Corpus Christi**—A. C. McCaughan, mayor, bond election about Nov. 21 imprv. sewer facilities, laying additional mains, etc. $750,000. Meyers & Noyes, Tower Petroleum Bldg., Dallas, engr., G. Blackburn, city engr.

★**Tex., Houston**—N. Pickett, mayor, voted bonds sanitary sewers, disposal plant imprvs., $2,500,000; storm sewers, $1,400,000. CD 8/26—ENR 9/18.

†**Tex., La Marque**—Galveston County Water Control & Imprvt. Dist. 3, sanitary sewerage sys., sewage disposal plant, near here, Docket Tex. 41-266. $126,000. **DPW.** CD 9/3—ENR 9/11.

†**Utah, Salt Lake City**—Con. Q.M. Utah Ordnance Plant, Salt Lake City, bids soon sewage disposal plant. $47,500.

★†**Va., Hampton Roads**—Hampton Roads Sanitation Comn., sewage collection and disposal facilities, Docket Va. 44-109. $10,600,000. **DPW.**

†**Wash., Kirkland** and **Houghton**—City of Kirkland, sanitary sewerage sys. for City of Kirkland and Houghton Shipyards area to the south, also complete treatment plant to service both units, Docket Wash. 45-151. $240,000. **DPW.** CD 2/14—ENR 2/20.

†**Wash., Navy Yard City** — Comrs. Kitsap Co., Bremerton, on behalf of Kitsap Co. Sewer Dist. (district to be formed), sewerage sys., Docket Wash. 45-152. $154,255. **DPW.**

Wash., Olympia — Sewerage sys. imprvs. Over $50,000. Defeated bonds to finance survey. C. H. Williams, City Hall, engr. CD 7/31—ENR 8/7.

Wis., Neenah—R. V. Hauser, city clk., bids soon. incinerator. Over $25,000. A. G. Prunuske, city engr.

Que., Cap de la Madeleine—F. Beaurnier, municipality clk., sewerage sys., for St. Odilon Ward. $30,000. E. Fleury, 7 Niverville St., Three Rivers, engr.

Que., Montreal—J. E. Gauthier, city clk., sewers, near Cedar Crescent, $25,000. J. E. Blanchard, City Hall, dir. P. Wks.

BIDS ASKED

Bids Asked October 22

†**N. J., Fort Dix** — Con. Q.M., Fort Dix, drainage structures to boiler house, Tilton General Hospital; adv. ENR 10/16.

Bids Asked October 23

†**Md., Aberdeen**—Pub. Bldgs. Admin., 7 and D Sts. S.W., Wash., D. C., sewage treatment plant, Aberdeen Proving Grounds.

Bids Asked October 24

★†**La., De Ridder**—C. R. Middleton, mayor, Sect. 2, WW and sewer imprvs., Docket La. 16-102. Total est. $508,222. **DPW.** A. F. Rideout, Thompson Bldg., engr. CD 9/4—ENR 9/11.

Bids Asked

Calif., Palo Alto—Concrete and corrugated metal storm sewers, manholes, catchbasins, etc., portions of Alma, Ramona Sts., etc. $35,000 or more.

LOW BIDDERS

Calif., Los Angeles—City, Oct. 8, sanitary sewers, Carmelina Ave. and Shady Dr. Sewer Dist., from P. Chorak, 433 N. Brannick St. $48,038. Est. $40,000. CD 9/22—ENR 9/25.

Calif., Los Angeles—Los Angeles Co., Hall of Records, Oct. 7, vitr. clay sanitary sewers in Lancaster, from Culjak & Zelko, 3960 Whittier Blvd. **$35,764.** A. Jones, Hall of Records, engr.

Calif., Redwood City—San Mateo Co., Oct. 2, 3,773 lin. ft. 18 in. vitr. sanitary sewer line, appurtenance to replace portion Vista Grande outfall sewer, from Fay Improvt. Co., Phelan Bldg., San Francisco. **$27,150.** CD 9/24.

†**Calif., Victorville** — U. S. Eng., 751 S. Figueroa St., Los Angeles, Oct. 7, sewage disposal plant, Victorville Airport, from M. Green, 28 7 St., San Bernardino. **$77,800.** CD 10/1.

★**N. Y., New York**—Dpt. P. Wks., Municipal Bldg., Oct. 8, Contr. 4, structures and equip. for 26 Ward Sewage Treatment Works, from P. Tomasetti Contg. Corp., 1066 60 St., Brooklyn, **$1,688,563;** Contr. 5, piping, from H. Sand & Co., Inc., 611 Bway., **$443,110.** CD 9/16—ENR 9/18.

Wis., New Richmond—City, Sept. 26, general contract sewage treatment and sewage disposal plant, from E. B. Spencer Constr. Co., c/o owner, $102,395***materials from Interstate Lumber Co., c/o owner, **$21,530***** equip., from Grinnell Co., Inc., 735 N. Water St., Milwaukee, $7,187. CD 9/23.

CONTRACTS AWARDED

Ky., Carlisle—Sewerage and sewage disposal. **WPA. $119,651.** H. K. Bell, 558 S. Limestone St., Lexington, engr.

★**Minn., Stillwater** — J. McGillin, city clk., sewage interceptor and sewage disposal plant. **WPA. $556,976.** Williams & Burlingame, Stillwater, engrs.

N. J., Jersey City—Hudson Co., Court House, 659 concrete block catch basins, various roads. **WPA. $50,425.** F. Radigan, Court House, co. and WPA engr. CD 10/1—ENR 10/9.

O., Wooster—Sewer exten. through Wayne Ave., Palmer, Gascbe and Keifer Sts., to Holmes Constr. Co., Wooster, **$27,900.** Est. $25,000. Awarded 10/4. CD 9/10—ENR 9/18.

O., Youngstown—Mahoning Co., sewerage sys., disposal plant, North Lima, water line to West Austintown, water line to Ewing Rd., water and sewer facilities, in various streets in Boardman, sewer line, Lakeview Ave., Poland. **WPA. $291,843.** A Coope, Youngstown, co. sanitary engr. CD 9/10—ENR 9/18.

Tex., Corpus Christi—A. C. McCaughan, mayor, relief pump. sta. imprv. disposal plant, etc., force account. Approx. **$39,000.**

Utah, Ogden—Sanitary sewer exten., Sewer Dist. 165, to Ogden Concrete Pipe Co., Ogden. **$62,470.** Bids 9/30. J. C. Brown, city engr.

Man., Neepawa—Dpt. National Defense for Air, Ottawa, Ont., installing sewer and water sys., E. F. T. School, to H. Borger & Son, 194 Osborne St., Winnipeg. **$60,000.**

Ont., Toronto—Chn. Bd. Control, sewers, W. Don Roadway, to Grant Contg. Co., Ltd., 47 Wellington St. E. **$45,500.** Est. $42,700. Bids 9/30. CD 9/22—ENR 9/25.

Que., Courville—L. P. La Plante, city clk., 1st sect. 5 mi. sewer, day labor. Total est. **$100,000.** C. Lessard, 32 Blvd. des Allies, Quebec City, engr. CD 9/29—ENR 10/9.

BRIDGES, GRADE CROSSINGS

PROPOSED WORK

Calif., Buellton — State Hy. Dpt., Sacramento, completed plans timber bridge over Alamo Pintado Creek, 4 mi. east of here. C. H. Purcell, P. Wks. Bldg., Sacramento, hy. engr.

†**Calif., Oakland**—12th Naval Dist., Federal Office Bldg., San Francisco, highway overpass, vicinity shipyards, clearing Western Pacific and Southern Pacific Railroads. $265,000.

†**D. C., Wash.**—Pub. Roads Admin., Winder Bldg., 17 and F Sts. N.W., rejected bids Aug. 7, steel struts between abutments of bridge over Boundary Channel at end Columbia Island, Project 5B6. CD 8/11—ENR 8/14.

Ill., Oglesby—Replacing old wooden bridge with concrete, steel bridge carrying Walnut St. over tracks of Ill. Central R. R.

N. J., Kearny (br. Arlington) and **Jersey City**—Central R.R. Co. of N. J., A. E. Owen, ch. engr., Reading Terminal, Phila., Pa., altering drawbridge over Hackensack River. Over $25,000.

O., Cleveland—M. Evans, dir. Pub. Serv., reconstructing, repairing obstructive spans over Cuyahoga River, incl. imprv. New York Central, Baltimore & Ohio, Big Four, Nickel Plate, Erie and Wheeling Railroads. J. M. Heffelfinger, 518 City Hall, bridge engr.

Okla., Hooker—Hy. Dpt., Oklahoma City, overpass over Rock Island Lines on U.S. 54, Texas Co. $56,000. V. T. Moon, Capitol, Oklahoma City, engr.

Pa., Allentown—Imprv. Tilghman St. bridge or rebuilding structure completely. E. Meckley, city engr.

Pa., Reading — Comrs. Berks Co., Court House, three 125 ft. span, steel, concrete bridge over Schuylkill River, Muhlenberg Park, near here. $75,000. W. C. Fry, Jr., c/o owner, co. engr.

Tex., Fort Worth—Tarrant Co., D. Miller, judge, 2 steel, rein.-con. bridges over Trinity River, White Settlement Rd. $177,500. H. Cook, 1227 E. Richmond St., engr.

★**Tex., Houston**—Voted bonds, bridges, paving, general improvs. $700,000. CD 9/16—ENR 9/18.

Alta., Alix—Bridge. $50,000. Dpt. P. Wks., Edmonton, engrs.

Ont., Hamilton—Wentworth Co., bridge and culverts, $30,000. E. F. Barratt, County Bldg., engr.

Que., Rock Island—M. Fregean, municipality clk., steel bridge. $35,000.

BIDS ASKED

Bids Asked October 21

Iowa—State Hy. Comn., Ames, 18 culvert extens. and flume exten.; Projects P-495, FN-238, FA-16, P-27, FA-178, P-264 and FA-81, Adair, Montgomery, Page and Taylor Counties; 12 rein.-con. box culvert extens., County Trunk Road D, FAS-741-A(1), Howard Co.; 2 rein.-con. box culverts, local road, 2 bridges, FAS-735-A(1), N. Ida Co.; 2 rein.-con. box culvert extens., County Trunk Rd. V, FAS-738-A(1), Lyon Co. F. R. White, Ames, engr.

Bids Asked October 24

Missouri—State Hy. Comn., Jefferson City, one 49 ft. and four 31 ft. I-beam span bridge over north fork South Fabius River, Route 8A, Proj. FAS 15 D1, Wilmuthville East Rd., Adair Co.; rein.-con. culverts, Wheaton-Butterfield Rd., Route SW, Sect. 1A, Barry Co.; one 40 ft. and two 20 ft. I-beam span bridge over Old Channel Muddy Creek, Route 6, Sect. 17F, Gallatin-Jamesport Rd.; one 50 ft. and two 35 ft., rein.-con. deck girder span bridge over Brushy Creek, same road, both Daviess Co.; five 25 ft., continuous concrete slab span bridge over Old Channel of Leland Creek, Route 169, Sect. 13B, Stanberry-King City Rd., Gentry Co.; two 10 ft., rein.-con. slab span, culvert type bridge over south fork Brushy Creek, Knobknoster-Southerland Rd., Route SD, Proj. FAS 167A, 1, Johnson Co.; two 8 ft., rein.-con. slab span culvert type bridge over Strickland Creek, Route 67-St. Francis River, Route ST, Proj. FAS 728 B1, Madison Co.; two 12 ft. rein.-con. slab span, culvert type bridge over Dry Branch, Route 71, Proj. SN FA 146 A1, Goodman-Anderson Rd.; two 12 ft., rein.-con. slab span, culvert type bridge over Kelley Springs Branch, same road, both McDonald Co.; nine 45 ft., rein.-con. deck girder span bridge over Little North Fork of White River, Route SC, Proj. FAS 425 C1, Theodosia-Rd., E. and W., Ozark Co.; one 37 ft. I-beam span bridge under St. Louis, San Francisco Ry. tracks, road through Bolivar, Route 13, Proj. SN, FAGM 693 A1, Polk Co.; two 10 ft., rein.-con. slab span, culvert type bridge over stream, Route SD, Sect. 4, Gatewood Rd. E.; two 12 ft., rein.-con. slab span, culvert type bridge over Logan Creek, road from Oxly East, Route SB, Sect. 4, both Ripley Co. C. W. Brown, Jefferson City, engr.

Bids Asked November 6

†**North Carolina**—Pub. Roads Admin., Winder Bldg., 17 and F Sts. N.W., Wash., D. C., rein.-con. structure, stone facing, etc., Project 2Y3, Blue Ridge Parkway, Haywood and Jackson Counties; adv. ENR 10/16.

LOW BIDDERS

Idaho—A. C. Merritt, comr. P. Wks., Boise, Oct. 3, concrete bridge over Coeur d'Alene-Yellowstone Trail, Shoshone Co., from G. D. Lyon, Hutton Bldg., Spokane, Wash. **$190,248.** CD 9/25, under Roads.

Indiana — State Hy. Comn., Indianapolis, Oct. 7, bridge, Contr. 2227, Marion Co., from Smith & Johnson, 1799 Kentucky Ave., Indianapolis, **$93,321** est. $108,045***underpass, Contr. 2228, Lake Co., from Rieth-Riley Constr. Co., S. Main St., Goshen, **$49,406** est. $51,774***2 bridges, Contr. 2229, Jasper Co., from Kruzick Bros., Warsaw, **$25,214** est. $29,526***2 bridges, Contr. 2232, Randolph Co., from J. R. Gates, State Blvd., Fort Wayne, **$27,330** est. $34,591 *** 2 bridges, Contr. 2233, Vigo Co., and bridge, Contr. 2235, Montgomery Co., from R. McCalman, Inc., Danville, Ill., **$53,735** and **$25,593** respectively, est. $60,643 and $28,807 respectively***2 bridges, Contr. 2236, Tippecanoe Co., from Deniston & Garber, Rochester, **$66,935** est. $79,777***2 bridges, Contr. 2239, Scott Co., from C. A. Kahl, Lafayette, **$39,542** est. $44,372. Received no bids Oct. 7, bridges, Contr. 2237, Warrick Co., bridge, Contr. 2231, Randolph Co., will readvertise. CD 9/23—ENR 9/25.

CONTRACTS AWARDED

Alabama — State Hy. Dpt., Montgomery, bridges on Prattville-Maplesville Rd., Autauga Co. and on Centerville-Maplesville Rd., Bibb and Chilton Counties, to Goodwyn & Murphree, Troy. **$57,142** and **$40,544** respectively. Bids 10/3. CD 9/23—ENR 9/25, under Roads.

Maine—State Hy. Comn., L. D. Barrows, ch. engr., Augusta, North Parish Bridge over Nesinscot River, Turner, to Walter V. Mitton, Inc., 12 Winter St., Augusta. **$38,246.** Bids 10/1. CD 9/25.

N. Y., Falconer—Chautauqua Co. Hy. Dpt., 454 N. Work St., county-wide bridge reconstruction and imprvs., own forces. **$50,000.** B. Chilson, c/o owner, supt. CD 9/12—ENR 9/18.

STREETS AND ROADS

BIDS ASKED

Bids Asked October 20

Connecticut—W. J. Cox, comn. State Hy. Dpt., Hartford, rein.-con. paving 8,069 ft. Wilbur Cross Hy., Tollan and Willington;

STREETS, etc. (Bids Asked, Cont'd.)

16,896 ft. Wilbur Cross Parkway, Willington; 1,800 ft. Hartford By-pass Main St. to Silver Lane, East Hartford, bituminous macadam 5,105 ft. Coe Ave., East Haven, 1,250 ft. rolled bank run gravel approaches to Housatonic River Bridge, Bridgewater; rolled bank run gravel surfacing 3,100 ft. part Burton Rd., Beacon Falls; 970 ft. Sackett Rd. and Fitch St., North Haven; 4,928 ft. Shingle Mill and W. Mountain Rds., Simsbury; placing concrete filling section open grid floor, Milford and Stratford; traffic bound gravel surfacing 6,250 ft. Burnett Rd., New Milford.

Bids Asked October 21

Iowa—State Hy. Comn., Ames, grading paving 5.919 mi. Hy. Iowa 10, FA 358-F(1), Delaware Co.; paving 0.444 mi. County Trunk Rd. C FSN-280, Muscatine Co.; grading, crushed stone surfacing 4.479 mi. County Trunk Rd. M, FSN-779, Adair Co.; grading 4.416 mi. County Trunk Rd. X, FM 12, Adams Co.; grading, graveling 9.554 mi. County Trunk Rd. D, FAS-741-A(1), Howard Co.; 6.056 mi. County Trunk Road Y FAS 714-A(1), Humboldt and Webster Counties; 4.559 mi. local road, FAS-735-A(1)N, Ida Co.; 4.627 mi. County Trunk Rd. V, FAS-739-A(1), Lyon Co.; detour surfacing for Iowa 75, FN-38-BCD(2), Plymouth Co. F. R. White, Ames, engr.

R. I., Cranston—Bd. Contr. & Purchases, City Hall, sheet asphalt paving 2¼ mi. Cranston St. Over $25,000. M. Durfle, City Hall, engr.

Bids Asked October 23

North Carolina—State Hy. and P. Wks. Comn., Raleigh, grading, traffic bound macadam, bit. surface treating 4.09 mi. Project 556, Rutherford Co. $25,000-$50,000; grading 9.16 mi. Project 3646, Onslow Co. $25,000-$50,000 structures on same road $15,000-$25,000. W. V. Baise, Raleigh, engr.

Bids Asked October 24

Missouri—State Hy. Comn. Jefferson City, grading, surfacing 0.134 mi. road north of Clifton Hill, Route E, Sect. 3-B, 0.105 mi. road from east of Jacksonville, Route J, Sect. 1-C, both Randolph Co.; 3.433 mi. Wilmathsville-Schuyler Co. Rd., Route A-FAS 15-D(1), Adair Co.; 2.159 mi. road from Oxford East, Route W-Sect. 2A, Worth Co.; 0.077 mi. Stanberry-King City Rd., Route 169, Sect. 13-B, Gentry Co.; 0.225 mi. Gallatin-Jamesport Rd., Route 6, Sect. 17-F, Daviess Co.; 1.799 mi. road Route 40, S., Route N, Sect. 1, Lafayette Co.; 2.994 mi. Neaqua-Wright Co. Rd., Route M-FAS 54-C(1), Webster Co.; grading, concrete paving 4.694 mi. Texas Co. Rd. W., Route 60-FA 515-A(1), Wright Co.; 0.536 mi. road in Bolivar, Route 13-SN-FAGM 693-A(1); 0.336 mi. road Bolivar, Route 13-SN-FA693-B(1), both Polk Co.; 4.553 mi. Goodman-Anderson Rd., Route 71-SN-FA 146-A(1), McDonald Co.; 3.27 mi. Kearney St. (Springfield), Route 66, Sect. 17-A, Greene Co.; 1.587 mi. Polo-Ray Co. Rd., Route C, 13-Sect. 8-B, Caldwell Co.; 4.49 mi. Caldwell Co.-Knoxville Rd., Route 13, Sect. 9, Ray Co.; grading 4.393 mi. Route 34 Cascade Rd., Route M-Sect 1, Wayne Co.; 4.015 mi. Osage Co.-Owensville Rd., Route 28, Sect. 20-C; 4.43 mi. same road, Route 28, Sect. 21, both Gasconade Co.; 3.756 mi. Knobnoster-Sutherland Rd., Route D, FAS 107-A(1), Johnson Co.; 0.076 mi. Lisbon-Route 87 Rd., Route K, Sect. 1-B, Howard Co.; grading, hauling and windrow gravel surfacing 2.619 mi. Ellington-Route 60 Rd., Route 21, Sect. 32, Reynolds Co.; 0.431 mi. Ellington-Route 60 Rd., Route 21, Sect. 33, Cartier Co.; grading, gravel surfacing 1.888 mi. Route 69-St. Francis River Rd., Route T-FAS 728 B(1), Madison Co.; 1.837 mi. Gipsy East Rd., Route E, Sect. 2, Bollinger Co.; 0.189 mi. road from Theodosia, Route C-FAS 425-C(1); 0.156 mi. same road, Route C-FAS 425-A(1), both Ozark Co.; 2.273 mi. road from Gatewood east, Route D, Sect. 4; 2.273 mi. road from Oxley east, Route D, Sect. 4; 1.134 mi. road from Oxley east, Route B, Sect. 4, all foregoing in Ripley Co. C. W. Brown, Jefferson City, engr.

Bids Asked October 28

†Kentucky—Office C. H. Garity, dir. Purchases, Tennessee Valley Auth., Knoxville, Tenn., constructing relocations state highways southeast of Benton, Ky. and west of Tennessee River. Requ. Hys. 249148, 249149 and 249150; adv. ENR 10/16.

Bids Asked October 28

Wisconsin—State Hy. Comn., Madison, grading, draining concrete surfacing 0.994 mi. U. S. Hy. 16 and S. T. Hy. 19, Portage-Pewaukee Rd., Oconomowoc-Okauchee Rd., FAP 425-F(3), Contr. 1, Waukesha Co.; grading, draining, bituminous surfacing 8.649 mi. Westby-Black River Falls Rd., Cashton-Sparta Rd., FAP 398-B(1), S. T. Hy. 27, Contr. 1, Monroe Co.; grading, draining, graded aggregate surfacing 2.04 mi. Spring Valley-Menomonie Rd., Spring Valley-North Co. line Rd., FAP FAS 198-A(1), S. T. Hys. 29 and 128, Contr. 1, Pierce Co.; timber bridge, Palmer Lake-Spring Lake Rd., S. P. 7141, Co. Trunk Hy. WB, Contr. 1, Vilas Co.; 3 span, 120 ft. rein.-con. deck girder bridge, New Richmond-Amery Rd., Little Falls Bridge, FASP. 214-A(1), Co. Trunk Hy. C, Contr. 1, Polk Co.; Bridge 790, 6 span, 439 ft. plate girder overhead, Madison-Milwaukee Rd., Soelch Overhead, FAP SN-FAP 467-B(2), S. T. Hy. 30, Contr. 1, Dane Co.

Bids Asked October 29

California—C. H. Purcell, engr., State Hy. Dpt., Sacramento, grading 1 mi. hy. Shasta Co.; grading, asphaltic concrete paving 3.2 mi. hy. San Mateo Co.

Bids Asked November 5

Louisiana—Dpt. Hys., Baton Rouge, blacktopping 10.847 mi. Bernice-Farmerville Hy., Union Parish.

Bids Asked

California—C. H. Purcell, engr. State Hy. Dpt., Sacramento, rejected bids Sept. 17, imprv. 0.3 mi. South Chester Ave., Bakersfield, Kern Co. CD 9/24—ENR 10/2.

Calif., Stockton—City Clerk, received no bids Sept. 29, grading, concrete curbing, gutters, sidewalks, road gravel and asphaltic concrete paving. $25,000. CD 9/16—ENR 9/18.

R. I., Cranston—Bd. Contrs. & Purchases, A. Durfle, city engr., City Hall, sheet asphalt paving 61,000 sq. yd. Cranston St. Over $75,000.

LOW BIDDERS

Arizona—W. R. Hutchins, engr. State Hy. Dpt., Phoenix, Oct. 3, imprv. 2.75 mi. Show-low-Holbrook Hy., Navajo Co., from H. L. Royden, P. O. Box 3707, Phoenix. **$80,907.** CD 9/30.

Arizona—State Hy. Comn., Phoenix, Oct. 3, imprv. 6.75 mi. Ash Fork-Flagstaff Hy., Coconino Co., from Packard Contg. Co., 412 Luhrs Tower, Phoenix, **$154,467.** CD 9/23—ENR 9/25.

California—C. H. Purcell, engr. State Hy. Dpt., Sacramento, Oct. 1, imprv. 0.25 mi. Humboldt Co., from J. Burman & Son, 2404 F St., Eureka, **$56,805.** CD 9/16—ENR 9/18; 3.5 mi. Contra Costa Co., from L. J. Immel, Box 65 Sta. A, Berkeley, **$109,121.** CD 9/22.

†Calif., King City—Con. Q.M., Camp San Luis Obispo, access road to target ranges in El Piojo section Hunter Leggett Military Reservation, near Jolon, Inv. 8, from F. C. Stolte, Pacific Grove, **$87,000,** alt, bid **$85,000.** CD 9/30—ENR 10/2.

Connecticut—W. J. Cox, comr. State Hy. Dpt., Hartford, Oct. 6, imprv. 13,270 ft. hy. Newington, from L. G. DeFelice, 51 Alston Ave., New Haven, **$141,428***12,000 ft. Southbury, from Oneglia & Gervasini, Inc., Casson Ave., Torrington, **$214,037***950 ft. and 20,257 ft. Trumbull and Shelton, from T. J. Connor General Contg. Co., 441 Arctic St., Bridgeport, **$50,638***200,000 sq. yd. Wethersfield, Hartford and East Hartford from Truscon Steel Co., East Aurora St., Waterbury, **$44,700.** CD 9/25—ENR 10/2.

Ill., Wheaton—DuPage Co., Sept. 29, imprv. 2.8868 mi. Sect. 109 MFT, from Advance Constr. & Eng. Co., Hinsdale, **$35,359.** CD 9/23.

★**Indiana** — State Hy. Comn., Indianapolis, Oct. 7, from Berns Constr. Co., 129 E. Market St., Indianapolis, imprv. 0.649 mi. Clark Co., **$26,468,** est. $26,704***from Putnam & Greene, Inc., 206 Transfer St., Fort Wayne, 8.807 mi. Vigo and Clay Counties, **$342,591,** est. $362,871***from J. C. O'Connor & Sons, 2104 Miner St., Fort Wayne, 2.74 mi. Lake Co., **$65,188,** est. $88,108; 0.606 mi. La Porte Co., **$167,769,** est. $168,492***from Brooks Constr. Co., 1123 Barthold St., Fort Wayne, 17.79 mi. Wabash and Huntington Counties, **$111,195,** est. $148,150; 11.95 mi. Miami and Wabash Counties, **$68,453,** est. $97,100; 19.4 mi. Kosciusko and Elkhart Counties, **$119,552,** est. $168,220; 14.1 mi. Allen and Whitley Counties, **$82,676,** est. $113,052***from Reith-Riley Constr. Co., S. Main St., Goshen, 18.7 mi. Elkhart and Lagrange Counties, **$119,420,** est. $154,830 ***from Paul J. Messer Constr. Co., 9942 S. Leavitt St., Chicago, Ill., 6.55 mi., Lake Co., **$50,487,** est. $56,567***from Hipskind Drainage Co., 1725 Winter St., Fort Wayne, 21.47 mi. Carroll and Cass Counties, **$145,293,** est. $181,-813***from Schumaker Bros., 820 E. St. Clair St., Indianapolis, 4.3 mi. Morgan, Hendricks and Marion Counties, **$31,459,** est. $36,073. Received no bids Oct. 7, imprv. 4.615 mi. Contr. 2226, Boone Co., will readvertise. CD 9/23—ENR 9/25.

Ia., Le Mars—Plymouth Co., Oct. 3, gravel surfacing project, from Hartsell & Evans, Early. **$45,668.** CD 9/23—ENR 9/25.

N. Y., Brooklyn—President Brooklyn Boro, Oct. 6, imprv. Delmonico Pl., Prospect Pl., Putnam Ave., Amboy, Baltic Bristol, Glen, Pulaski and Somers Sts., from Pomonok Asphalt Paving & Material Corp., 1217 Grand St., **$28,293.** CD 9/29—ENR 10/2.

Wisconsin—State Hy. Comn. Madison, Oct. 7, imprv. 24.803 mi. Douglas Co., from Kileen Constr. Co., 1716 Winter St., Superior. **$125,381.** CD 9/26—ENR 10/2.

CONTRACTS AWARDED

★**Alabama**—State Hy. Dpt., Montgomery, C. J. Sherlock, dir., imprv. 16.582 mi., Bibb and Chilton Counties, to Mitchell Bros. Constr. Co., 3828 1 Ave. S., Birmingham, **$395,014*****; 1.485 mi. Autauga Co., to Georgia-Alabama Roads Constr. Co., Birmingham, **$76,401*****8.54 mi. Marengo Co., to W. L. Cobb Constr. Co., Decatur, Ga., **$248,748.** Grand total $720,163. Bids 10/3. CD 9/23—ENR 9/25.

Ark., De Queen—L. T. Moore, judge Sevier Co., imprv. roads, **WPA. $200,709.**

Ark., Yellville—E. Berry, judge Marion Co. imprv. roads, **WPA. $167,785.**

Conn., Stanford—J. F. Connolly, Comr. Finance, City Hall, imprv. Strawberry Hill Ave., to P. Bacco, 179 Bedford Ave., **$26,276.** Est. $25,000. Bids 10/4. CD 10/2.

Fla., Orlando—Construction ... Orlando Municipal Airport, W... $201,170.

Fla., Tampa—Access street ... building Co., consisting exten... of 1 St., 13 and 22 Ave., ... paving, **WPA. $143,379.**

Kansas—State Hy. Dpt., G... 1.481 mi. hy. and 0.92 mi. ... Geiger & Rutherford, Leav... and **$31,154** respectively. Bid... 9/29. CD 9/16—ENR 9/18.

Kansas—State Hy. Dpt., ... Cook & Tucker, Ottawa, ... Woodson Co., **$82,812;** 1.116 ... **$38,487;** 0.903 mi. Allen Co., ... total $166,755. Bids 9/24, ... 9/10—ENR 9/18.

Massachusetts—Dpt. P. Wks., H. L. MacDonald, comr., 100 Nashua St., Boston, ... concrete paving 7,140 sq. yd. Porter St., East Boston, to National Eng. & Contr. Co., ... State St., Boston. **$29,092.** Bids 9/30.

★**Montana**—State Hy. Comn. Helena, ... 7.115 mi. Wibaux Co., and ... hy. and 2 bridges, Fergus Co., to Stanley H. Arkwright, Inc., Great Falls, **$74,066** and **$69,556** respectively***imprv. ... concrete bridge widening, Deer Lodge Co., to C. & F. Teaming & Trucking Co., 1600 Chicago St., Butte, **$111,707***imprv. 14.433 mi. Fallon Co., to F. J. Haas, Great Falls, **$127,449***... 6.048 mi. Madison Co., to Northwestern Eng. Co., Rapid City, S. D., **$135,129***13.048 mi. Musselshell Co., to Albert Lalonde Co., Sidney, **$166,304***2.665 mi. Flathead Co., to Kirkpatrick Bros., Kalispell, **$28,173***imprv. hy., 3 stockpasses, 2.468 mi. Gallatin Co., to Standard Constr. Co., Bozeman, **$31,988***... stockpass, bridging, 12,935 mi. Musselshell and Rosebud Counties, to D. M. Manning, Hysham, **$62,575***imprv. hy., 2 bridges 2.18 mi. Ravalli Co., to H. N. Bates, Hamilton, **$32,021.** Grand total **$838,861.** Bids 9/30. CD 9/4—ENR 9/11.

N. J., Egg Harbor City—Grading, curbing, sidewalks, drainage sys. **WPA.** $72,000. G. R. Swinton, 930 Atlantic Ave., Atlantic City, owner's and WPA engr.

N. J., Jersey City—Hudson Co., Court House, grading, 7 in. cinder base, 5 in. concrete sidewalks. **WPA. $52,500.** F. Radigan, Court House, co, and WPA engr.

O., Cleveland—Thompson Aircraft Co., F. A. Crawford, pres., 2169 Clarkwood Rd., concrete roadway for plant, 23555 Euclid Ave., to Highway Constr. Co., Midland Bldg., $45,000, parking areas for same, to Allied Corp., Keith Bldg., **$95,000.** O. Wright, 6402 Cedar Ave., engr.

Pa., Wilkes-Barre—L. K. Eldridge, city clk., bituminous materials paving Hancock St. (incl. trolley rail removal), Old River Rd., Riverside Dr., Hazle, Laird and Northampton Sts., curbs, gutters other streets. **WPA. $86,000.** G. B. Walker, city engr.

Tex., Brownsville—Milam Co., c/o judge, imprv., reconstructing roads, **WPA. $54,458.**

Tex., Karnes City—Karnes Co., c/o judge, reconstruction and imprv. roads. **WPA. $70,820.**

West Virginia—State Road Comn., Charleston, imprv. 4.1 mi. Mercer Co., to Sam E. Finley, Inc., Roanoke, Va., $58,217; 3.39 mi. Cabell Co., to Middle States Bit. Corp., Ironton, O., **$63,007.** Bids 10/7. CD 9/25.

Wisconsin — State Hy. Comn., Madison, imprv. 1.094 mi. Milwaukee Co., to Kramp Constr. Co., 2775 S. 27 St., Milwaukee. $144,-812. Bids 9/30. CD 10/3—ENR 10/9. ... under LB.

Ontario—Dpt. Hys., Toronto, concrete paving 12 mi. hy. Contrs. 41-36 and 41-40, ... Dibblee Constr. Co., Ltd., 248 Albert St., Ottawa, est. **$350,000;** grading, culverts 30 mi. hy., to Malvern Constr. Co., 648 Danforth Ave., Toronto, est. **$450,.000,** above work near Cochrane.

Quebec—Dpt. Roads, Quebec City, grading graveling, bituminous paving 3.59 mi. Hy. 15, from Chateau River to L'Ange Gardien, to Union Quarry & Paving Co., 48 2 Ave., Quebec City. **$112,000.**

EARTHWORK, WATERWAYS

PROPOSED WORK

Calif., Long Beach—City Harbor Comm., steel bulkhead, Pier D in outer harbor, timber wharf, dredging and filling areas to deepen to 35 ft. below mean lower low water and to create fill 16 ft. above datum betw. east jetty and east mole.

Calif., Seal Beach—600 ft. rock jetty, 2 groins, totaling 650 ft. in length, easterly of entrance channel to Anaheim Bay, dredging to depth 10 ft. below mean lower low water, removing 300,000 cu. yd. material to be deposited on adjacent beach east of entrance channel.

†Mo., Lexington—U. S. Eng., 601 Davidson Bldg., approx 7,400 ft. revetment in Missouri River between Sni Bend and Lexington Reach, center of work 3½ mi. from here.

†Neb., Peru — U. S. Eng., 1709 Jackson St., Omaha, approx. 769 ft. standard revetment in Missouri River, Kansas Bend. $20,000.

Pa., Ashley—Boro Council, W. Gryskewicz, burgess, dredging Sugar Notch Creek, through West Ashley sect. $18,000.

EARTHWORK (Proposed Work, Cont'd.)

Pa., Wilkes-Barre—L. K. Eldridge, city clk., elevating concrete walls along Solomon's Creek for flood control, both sides stream between Vulcan and Brook Sts. $28,500. G. B. Walker, city engr.

★**Tex., Houston**—Voted bonds flood control $1,000,000; levees, drainage, parks and recreation facilities, etc. $100,000. CD 9/16—ENR 9/18.

BIDS ASKED

Bids Asked October 23

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, approx. 40,000 cu. yd. earthwork South Bank Red River Levees, New Orleans Dist.

O., Cleveland—F. Foy, city purch. agt., stone breakwater wall in Edgewater Park Yacht Basin, $140,000. Bids Sept. 25, rejected. J. C. Wenrick, City Hall, engr. CD 10/1—ENR 10/9 under LB.

Bids Asked October 28

†**Arkansas**—U. S. Eng., P. O. Box 60, Vicksburg, Miss., 4,700,000 cu. yd. earthwork, west bank Mississippi River, Inv. 1106-42-57.

Bids Asked October 31

†**Illinois**—U. S. Eng., P. O. Box 59, Louisville, Ky., flood protection works, Cache River Diversion Unit 1, Mounds and Mound City, Pulaski Co.

Bids Asked November 6

Calif., Seal Beach—Dredging Anaheim Bay, $30,000; constructing jetty, $85,000; 2 groins, $15,000. J. A. Woolley, 206 N. Main St., Santa Ana, consult. engr.

Bids Asked About November 12

†**Pa., Plymouth**—U. S. Eng., 332 Post Office Bldg., Baltimore, Md., constructing Coal Creek Diversion; adv. ENR 10/16.

LOW BIDDERS

★†**New York**—U. S. Eng., 17 Battery Pl., New York, Oct. 6, 2,832,500 cu. yd. place measurement of all materials except ledge rock from Liberty Island Anchorage, from Great Lakes Dredge & Dock Co., 17 Battery Pl., New York. **$1,271,226.** CD 9/8—ENR 9/11.

N. Y., Tarrytown—Bd. Trustees, Municipal Bldg., 21 Wildey St., Oct. 6, bulkhead in Hudson River, south of Tarrytown Boat Club, from Wm. Parrotts Sons, Front St., Newburgh, **$45.45** per lin. ft. Est. $70,000. CD 9/29—ENR 10/2.

★†**Pennsylvania**—U. S. Eng., 332 Post Office Bldg., Baltimore, Oct. 3, Md., Solomon Creek pump station, flood control project, incl. levee, storage reservoir, etc., from Sordoni Constr. Co., Forty Fort, **$579,353.** CD 9/3—ENR 9/11.

★†**Wash., Port Angeles**—U. S. Eng., Central Bldg., Seattle, Oct. 6, rubblestone breakwater, Neah Bay, near here, from Kern & Kibbe, 4025 N.E. Hassalo St., **Portland, Ore.,** and Guy F. Atkinson Co., Russ Bldg., San Francisco, Calif., **$1,696,800.** Est. $1,141,000. CD 9/29.

CONTRACTS AWARDED

Calif., Merced—Directors Merced Irrigation Dist., Merced, rein.-con. combination flood and irrigation structure in Black Rascal Creek, Crocker Dam, 2½ mi. north of here, and constructing rein.-con. outlet structure and 275 lin. ft. concrete lined canal and rein.-con. headgate inn Fahrens Creek, near Planada, to L. W. Terrell, 221 9 Ave., Turlock, **$20,180** (Dist. to furnish steel). Bids 9/30. CD 9/3—ENR 9/11.

†**Missouri**—U. S. Eng., 1 and Douglas St. N.W., Wash., D. C., earthwork, installing culvert, Lower St. Francis Levee Dist., Pemiscot Co., to River Contg. Co., Cotton Exch. Bldg., and S. K. Jones Constr. Co., Sterick Bldg., both Memphis, Tenn., **$190,203.**

†**Mo., Washington**—U. S. Eng., 601 Davidson Bldg., Kansas City, constructing approx. 7,167 ft. accretion pavement in Missouri River between Southpoint Reach and Hinkles Bend, hired labor and government plant. Est. **$160,000.** CD 10/1—ENR 10/9.

†**Montana**—Montana Soil Conservation Serv., Helena, land conservation work in Blaine, Phillips, Valley, Musselshell, Petroleum, Fergus, Prarie, Fallon and Yellowstone Counties. **WPA. $62,448.**

N. J., Newark—Essex Co. Park Comn., 115 Clifton Ave., flood control various parks, excavating, clearing out, rubble masonry walls, etc., **WPA. $35,000.** R. D. Crater, 115 Clifton Ave., owner's and WPA engr.

★**Texas**—State Health Dpt., Austin, statewide project of draining swamps, building earth levees against overflows, filling, grading, etc. **WPA. $1,412,904.**

†**Washington**—Bureau Reclamation, Customhouse, Denver, Colo., furnishing fabricated structural steel for 5 selector-switch supports, 6 disconnecting switch supports and 2 bus-power plant, Columbia Basin Project, Spec. 155-D to Bethlehem Steel Co., E. 3 St., Bethlehem, Pa. **$62,768.** CD 9/18—ENR 9/25. under LB.

UNCLASSIFIED

PROPOSED WORK

Alabama — RURAL ELECTRIC LINES — North Alabama Electric Co-operative, J. E. Lillard, supt., Stevenson, completing section rural electric sys. $38,000 REA allot.

Arkansas—RURAL ELECTRIC SYSTEM—Carroll Electric Co-operative Corp., P. F. Arnold, supt., Berryville, completing section rural electric sys. $61,000 REA allot.

†**Calif., Goleta**—OBSERVATION BUILDINGS, etc.—U. S. Eng., 751 S. Figueroa St., Los Angeles, quarters for 40 officers and 400 men comprising Army Observation Flight Squadron, incl. 20 bldgs., hangars, sewage disposal plant, water supply sys., etc.

★**Calif., Long Beach**—PIER—City, City Hall, open piling pier $562,500, 150x800 ft. mole $1,500,000 for use of Catalina Island ships. G. E. Baker, City Hall, engr.

Calif., Palm Springs—HANGAR—F. Shubert, c/o F. Lea MacPike, archt., Palm Springs, hangar and administration bldg., Municipal Airport. $100,000.

Calif., Santa Rosa — HATCHERY — Owner, c/o J. L. Conrich, archt., 188 Beaumont St., San Francisco, part 1 and 2 story, brick hatchery. $40,000 with equip.

Colorado — RURAL ELECTRIC LINES — Gunnison County Electric Assn., Inc., V. A. Morgan, supt., Crested Butte, 41 mi. rural electric lines, Saguache and Gunnison Counties. $50,000 REA allot.

Colorado—TRANSMISSION LINES—Sangre de Cristo Electric Assn., Salida, soon lets contract, 157 mi. transmission lines. Rocky Mountain Eng. Co., 212 McClintock Bldg., Denver, engrs. CD 1/15—ENR 1/23.

Conn., Groton (br. New London)—PARK—Boro, D. F. Armstrong, warden, 300 Thames St., imprv. George Washington Park. $75,000. Applied for federal gr.

Georgia—ELECTRIC DISTRIBUTION SYSTEM — Jackson Electric Membership Corp., Jefferson, soon lets contract 167.5 mi. electric distr. sys., Banks, Barrow, Clark, DeKalb, Gwinnett, Hall, Jackson, Lumpkin, Oglethorpe and Madison Counties. REA. J. B. McCrary Eng. Corp., 22 Marietta St., Atlanta, Ga., engrs. CD 8/8—ENR 8/21.

Georgia—RURAL ELECTRIC LINES—Carroll Electric Membership Corp., W. G. Foster, supt., Carrollton, 164 mi. rural electric lines, Carroll, Heard, Haralson, Polk and Paulding Counties. $158,000 REA allot.

★**Ill., Chicago**—AIRPORT—Dpt. P. Wks., airport terminal bldg., municipal airport, 63 and Cicero Aves. $1,813,000. Funds appropriated.

Indiana — RURAL ELECTRIC LINES — Boone County REMC, H. E. Antle, mgr., Lebanon, 6.13 mi. rural electric lines, Tipton and Hamilton Counties. $32,000 REA allot.

Indiana — RURAL ELECTRIC LINES — Parke County REMC, R. Dooley, mgr., Rockville, 22 mi. rural electric lines, Parke, Putnam, Fountain, Vigo and Montgomery Counties. $45,000 REA allot.

Indiana — RURAL ELECTRIC LINES — Henry County REMC, G. Clore, mgr., Newcastle, 28 mi. rural electric lines, Henry, Madison, Randolph, Wayne, Delaware and Fayette Counties. $48,000 REA allot.

Iowa—RURAL ELECTRIC LINES—Franklin Rural Electric Co-operative, J. Morrow, supt., Hampton, 91 mi. rural electric lines, Franklin, Cerro Gordo, Wright and Butler Counties. $85,000 REA allot.

Kentucky — RURAL ELECTRIC LINES — Harrison County Rural Co-operative Corp., G. L. Bridwell, supt., Cynthiana, 30 mi. rural electric lines, Grant, Harrison, Scott, Bourbon, Nicholas and Pendleton Counties. $60,000 REA allot.

Kentucky — RURAL ELECTRIC LINES — South Kentucky Rural Electric Co-operative Corp., F. D. Gregory, supt., Somerset, 342 mi. rural electric lines, Pulaski, Casey, Clinton, Lincoln, Wayne, McCreary and Russell Counties. $223,000 partial REA.

Kan., Great Bend—PIPE LINE—Sonken-Galamba Supply Co., c/o Falcon Refining Co., Great Bend, addnl. pipe line connections. $85,000.

Michigan — RURAL ELECTRIC LINES — Oceana Electric Co-operative, L. Churchill, supt., Hart, 33 mi. rural electric lines, Oceana, Newaygo, Mason and Muskegon Counties. $55,000 REA allot.

Minnesota—RURAL ELECTRIC LINES—North Itasca Electric Co-operative, Inc., J. Savri, secy., Bigfork, soon lets contract 334 mi. rural electric distr. sys., Itasca and Koochiching Counties. REA. Bids 9/23, rejected. General Eng. Corp., 2944 Cedar Ave., Minneapolis, engrs. CD 9/17—ENR 9/18.

Minnesota — RURAL ELECTRIC LINES — South Central Electric Assn., E. C. Meier, supt., St. James, 114 mi. rural electric lines, Cottonwood, Watonwan, Martin, Blue Earth, Jackson and Redwood Counties. $110,000 REA allot.

Mo., Chillicothe—AIRPORT—Bond election soon airport. $50,000.

Neb., Omaha—AIRPORT—H. Knudsen, city comr., municipal airport improvs., exten., runways, apron, drainage, etc. $450,000. Applied to WPA.

New Jersey—RURAL ELECTRIC LINES—Tri-County Rural Electric Co., Inc., W. Jackman, supt., Freehold, 15 mi. rural electric lines, Burlington, Ocean and Monmouth Counties. $25,000 REA allot.

New Jersey—PARK IMPROVEMENTS—Essex Co. Park Comn., 115 Clifton Ave., Newark, park imprvs., 4,050 ft. 12 in. vitr. tile sewer, catchbasins, manholes, 2 in. water line, etc. $70,000. WPA. R. D. Crater, 115 Clifton Ave., owner's and WPA engr.

N. J., Bayonne—WALLS, etc.—Excavating, constructing stone masonry walls with stringers, 12x12 in., decking 6x6 in., on various streets. $58,000. WPA. H. A. Jaeger, City Hall, WPA and owner's engr.

N. J., Galloway and **Egg Harbor** — AIRPORT GRADING, etc.—City of Atlantic City, City Hall, Atlantic City, grading, constructing 51,167 sq. yd. 4 in. gravel runways, airport. $75,000. G. R. Swinton, 930 Atlantic Ave., Atlantic City, owner's and WPA engr.

N. Y., Little Valley—AIRPORT—Little Valley Twp., Little Valley, defeated proposition for municipal airport (Smith Field). $35,000. CD 9/16—ENR 9/18.

†**N. Y., Ovid**—TRAILER PARK—C. F. Palmer, coordinator, Defense Housing, 811 Vermont Ave. N.W., Wash., D. C., trailer park, Ovid and Waterloo, Seneca Co.

North Carolina—RURAL ELECTRIC LINES—Roanoke Electric Membership Corp., L. W. Anderson, mgr., Rich Square, completing rural electric sys. $25,000 REA allot.

North Carolina—RURAL ELECTRIC LINES—Blue Ridge Electric Membership Corp., G. F. Messick, supt., Lenoir, build and acquire 271 mi. rural electric lines, Avery, Caldwell, Ashe, Watauga, Alleghany and Alexander Counties. $316,000 REA allot.

North Carolina—RURAL ELECTRIC LINES—Town of Wilson, W. H. Wiggins, city mgr., Wilson, 132 mi. rural electric lines in Wilson, Nash, Wayne, Greene, Pitt and Edgecombe Counties. $151,000 REA allot.

N. C., Wilson—AIRPORT—W. M. Daniel, mayor, $100,000 bond election Nov. 4, airport. CAA.

Ohio—RURAL ELECTRIC LINES—Butler Rural Electric Co-operative, Inc., L. Lamborn, supt., Hamilton, 25 mi. rural electric lines, Butler, Preble, Montgomery and Hamilton Counties. $32,000 REA allot.

Ohio—RURAL ELECTRIC LINES — Darke Rural Electric Co-operative, Inc., R. H. Orton, supt., Greenville, 25 mi. rural electric lines, Preble and Darke Counties. $26,000 REA allot.

★**O., Springfield** — AIRPORT — Completed plans municipal airport imprvs. $946,424. PWA. W. E. Lucas, city engr.

Oklahoma — ELECTRIC TRANSMISSION LINE—Grand River Dam Auth., Vinita, electric transmission line from near Locust Grove to new powder plant at Choteau. $35,000. W. R. Holway, 302 E. 18 St., Tulsa, engr.

Oklahoma — RURAL ELECTRIC LINES — Cotton Electric Co-operative, C. W. Cox, supt., Walters, build and acquire 260 mi. rural electric lines, Cotton, Tillman, Jefferson, Stephens and Comanche Counties. $120,000 REA allot.

Ore., Klamath Falls — TRACK LAYING, etc.—Southern Pacific Ry. Co., W. H. Kirkbride, ch. engr., 65 Market St., San Francisco, Calif., laying 3 mi. new track, adding 2 roundhouse stalls, water and oil columns. $175,000.

South Carolina—RURAL ELECTRIC LINES—Blue Ridge Electric Co-operative, A. J. Hurt, Supt., Pickens, 75 mi. rural electric lines, Anderson, Pickens and Oconee Counties. $80,000 REA allot.

South Carolina—RURAL ELECTRIC LINES—York County Electric Co-operative, Inc., c/o W. H. Wilkerson, pres., soon lets contract, 186 mi. rural electric lines, Chester and York Counties. J. B. McCrary Co., 22 Marietta St. Bl., Atlanta, Ga., engrs. CD 8/7—ENR 8/14.

Tennessee — RURAL ELECTRIC LINES — Mountain Electric Co-operative, C. C. Blevins, pres., Mountain City, 130 mi. rural electric sys., Johnston and Carter Counties. $218,000 REA allot.

Texas — RURAL ELECTRIC TRANSMISSION LINES—Bandera Electric Co-operative, Bandera, 68 mi. rural electric transmission lines. $40,000. REA. Texas Eng. Co., 110 E. 10 St., Austin, engrs.

Texas—RURAL ELECTRIC LINES—Bowie-Cass Electric Co-operative, Douglasville, 19.52 mi. rural electric power transmission lines, Cass Co. $40,000. REA. Freese & Nichols, Capps Bldg., Fort Worth, engrs.

UNCLASSIFIED (Proposed Work, Cont'd.)

Texas—RURAL ELECTRIC LINES—Floyd County Rural Electric Co-operative, Floydada, soon lets contract, 216 mi. rural electric lines, $152,000. Extended date. H. N. Roberts, 2415 20 St., Lubbock, engr. CD 9/26—ENR 9/18.

Texas—RURAL ELECTRIC LINES—Rusk County Electric Co-operative, Inc., c/o W. R. Mehner, supt., Henderson, soon lets contract, 150 mi. rural electric lines, Sect. C, Gregg, Panola and Rusk Counties. $125,000. Bids 10/2 rejected. Freese & Nichols, Capps Bldg., Fort Worth, engrs. CD 9/23—ENR 9/25.

★**Texas**—TELEPHONE CABLE—Southwestern Bell Telephone Co., Telephone Bldg., Dallas, underground telephone cable for long distance telephone circuits between Dallas, Austin, Houston and San Antonio. $4,000,000.

†**Tex., Abilene**—AIRPORT—U. S. Eng., Caddoa, Colo., indefinitely postponed bids to have been opened about Oct. 29, airport. CD 10/7—ENR 10/9.

†**Tex., Camp Bowie**—GROUND IMPROVEMENT—Con. Q.M., additional ground imprvs., in certain areas, concrete athletic courts, drainage, fencing, filing, etc. $161,993. WPA.

†**Tex., Camp Bowie**—GROUND IMPROVEMENTS, etc.—Con. Q.M., ground imprvs., roads, bandstand, tennis courts, dance pavilions, etc. $162,000. Applied for WPA funds.

Tex., Corpus Christi—PARK IMPROVEMENTS—A. C. McCaughan, mayor, bond election about Nov. 21, municipal park imprvs., grading, leveling, filling, athletic courts, swimming pools, etc. $200,000.

Tex., Dumas—MAUSOLEUM—A. C. Finn, archt., Bankers Mortgage Bldg., Houston, bids soon granite, stone mausoleum, for R. S. Coon, Dalhart. $45,000.

★**Tex., Houston** — AIRPORT — N. Pickett, mayor, voted bonds airport imprvs. $800,000. CD 9/16—ENR 9/18.

Tex., Houston—SUB-STATION—Voted bonds sub-station, fire alarm exten. sys. $320,000. CD 9/16—ENR 9/18.

Tex., Houston—TRAFFIC CONTROL DEVICES, etc.—Voted bonds traffic control devices, concrete standards, concrete traffic islands, etc. $100,000.

Vermont and **Massachusetts** — RURAL ELECTRIC LINES — Halifax Electric Co-operative, Inc., W. N. Cook, supt., West Halifax, 25 mi. rural electric lines, Windham Co., Vt., and Franklin Co., Mass. $52,000 REA allot.

Washington—RURAL ELECTRIC LINES—Klickitat Co. Public Utility Dist., Coffield Bldg., Goldendale, bids soon 450 mi. rural electric distr. lines. $445,000. Colville Eng. Co., Colville, engrs.

Washington—RURAL ELECTRIC LINES—Snohomish Co. Public Utility Dist., Court House, Everett, rural electric distr. sys. between Everett and Monroe. $100,000. REA. CD 7/21, under Everett.

Wash., Olympia — AIRPORT — Defeated bonds airport. $100,000. C. H. Williams, City Hall, engr. CD 9/16—ENR 9/18.

★†**Wash., Spokane** — MUNITIONS DUMP — U. S. Eng., Central Bldg., Seattle, munitions dump with concrete igloos, adjacent Geiger Field. $500,000.

Wisconsin — RURAL ELECTRIC LINES—Marathon-Portage Electric Co-operative, Inc., Wausau, 210 mi. electrical distr. sys., Marathon and Portage Counties, Wisc. 2062A-Portage. $192,000. Wisconsin Development Auth. 110 E. Main St., Madison engrs. CD 9/17—ENR 10/2.

Wis., Madison — PARK IMPROVEMENT — A. W. Bareis, city clk., imprv. Henry Vilas Park, open air theatre. $30,000.

Wis., Superior—SHIPYARD BUILDINGS—Globe Shipbuilding Co., Superior, shipyard bldgs.

Wyoming—RURAL ELECTRIC LINES—Carbon Power & Light Co., E. Trowbridge, pres., Saratoga, build and acquire 240.6 mi. rural electric lines, Carbon Co. $314,000 REA allot.

Alta., Edmonton — AIRPORT RUNWAYS — Exten. runways, airport, also administration bldg. $100,000. A. W. Haddow, City Hall, engr.

Man., Douglas — AERODROME — Dominion Govt., Ottawa, Ont., aerodrome development work, $100,000. Dpt. Transport, Ottawa, Ont., engrs.

★**Ontario** — HYDRO-ELECTRIC POWER TRANSMISSION—Winnipeg Electric Co., Ltd., Notre Dame and Albert Sts., Winnipeg, Man., bids soon 200 mi. hydro-electric power transmission pole line, Kenora to Fort Francis to Steep Rock Iron Mines, Ltd. property at Atikokan. About $600,000.

Ont., Ferris—TOURIST CAMP, etc.—E. C. Churchill, 208 Macintyre St., North Bay, tourist camp, etc. $25,000.

Ont., Ottawa—RAILWAY SIDING—M. Zagerman & Co., 14 Bayview Rd., railway siding, etc. $30,000.

Ont., St. Thomas—CONDUIT SYSTEM—Bell Telephone Co. of Canada, 1050 Beaver Hall Hill, Montreal, Que., conduit sys. for wires, residential dist. $50,000.

★**Que., Bagotville**—AIR TRAINING SCHOOL—Dominion Govt., Ottawa, Ont., plans by Dpt. Air Defense, Ottawa, Air Training School. $1,000,000. Dpt. Munitions & Supply, Ottawa, engrs.

BIDS ASKED

Bids Asked October 21

Georgia—RURAL ELECTRIC LINES—Central Georgia Electric Membership Corp., c/o G. W. Patrick, pres., Jackson, 223 mi. rural electric lines, Butts, Henry, Spalding, Clayton, Fulton, Coweta, Lamar, Monroe, Bibb, Jasper, Morgan, Putnam, Fayette, Jones and Newton Counties. J. B. McCrary Co., 22 Marietta St. Bl., Atlanta, engrs. CD 8/8—ENR 8/21.

Bids Asked October 23

Man., Brandon—AERODROME—Secy. Dpt. Transport, Ottawa, Ont., aerodrome, clearing, grading, etc., at Douglas, 14 mi. northeast of here. About $250,000.

Bids Asked October 27

†**California** — CONDUIT UNITS — Bureau Reclamation, Customhouse, Denver, Colo., furnishing, del. eight 102 in. welded-plate-steel, temporary conduit units for river outlets, Shasta Dam, Kennett Div., Central Valley Project, Spec. 1574-D.

†**California**—PLATFORM—Bureau Reclamation, Customhouse, Denver, Colo., furnishing, del. hand operated traveling inspection platform for Pit River bridge on relocation Southern Pacific R.R. and U.S. Hy. 99, Kennett Div., Central Valley Project, Spec. 1576-D.

N. Y., New York—DUMPING BOARD—President Manhattan Boro, Municipal Bldg., Marginal street imprvt. E. 30 to E. 49 Sts., for sanitation dumping board, with ramp, between E. 31 St. and E. 33 Sts., East River, Contr. 40 A, B, C, D.

†**Utah**—PENSTOCKS—Bureau Reclamation, Customhouse, Denver, Colo., furnishing, del. 34 in. diam welded-plate-steel penstock, for Wellsville Canal pump. plant, Hyrum Project, Spec. 1575-D.

Bids Asked About October 30

†**Mo., Joplin**—LANDING FIELD IMPROVEMENTS—U. S. Eng., Wright Bldg., Tulsa, Okla., land field imprvs., incl. 870,000 cu. yd. sodding, seeding, 162,200 sq. yd. each runway base and surface course, 39 catch basins, rein.-con. pipe drains, etc.

Bids Asked November 1

Nebraska — TRANSMISSION LINE — Loup River Public Power Dist., H. Kramer, secy., Columbus, transmission line from Grand Island to Omaha. Over $100,000. CD 8/11—ENR 8/14.

Bids Asked November 3

†**Arizona-California-Nevada** — TURBINES—Bureau Reclamation, Customhouse, Denver, Colo., furnishing, del. 1 or 2 vertical shaft hydraulic turbines, 1 or 2 oil-pressure governors, for Unit N-7 or Units N-7 and N-8, Boulder power plant, Boulder Canyon Project, Spec. 1001; adv. ENR 10/16.

Bids Asked November 4

†**California**—TRASHRACKS—Bureau Reclamation, Customhouse, Denver, Colo., furnishing, del., 444 trashracks for river outlets and 240 trashracks for main-unit inlets, Shasta Dam, Central Valley Project, Spec. 1004.

†**Colorado**—TRANSFORMERS, etc.—Bureau Reclamation, Customhouse, Denver, Colo., furnishing, del., transformers, oil circuit breakers, switches, etc., for Green Mountain power plant, Colorado-Big Thompson Project, Spec. 1009; adv. ENR 10/16.

Bids Asked November 6

†**Arizona-California-Nevada** — SWITCHES, LIGHTNING ARRESTER, TRANSFORMERS—Bureau Reclamation, Custom House, Denver, Colo., furnishing, del. disconnecting switches, lightning arresters, transformers, for Boulder power plant, Boulder Canyon Project, Spec. 1003.

Bids Asked November 7

†**Arizona-California-Nevada**—GENERATORS—Bureau Reclamation, Custom House, Denver, Colo., 1 or 2 generators for Units N-7 and N-8, Boulder power plant, Boulder Canyon Project, Spec. 1005.

LOW BIDDERS

†**Ariz., Higley**—GAS FUELING SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., Oct. 7. A. C. gas fueling sys., Mesa Military Airport, from Peter Gadd, 215 California Fruit Bldg., Sacramento, Calif., **$112,000.** CD 9/17—ENR 9/25.

†**Calif., Long Beach**—GRADING—U. S. Eng., 751 S. Figueroa St., Los Angeles, Oct. 7, grading site Army Air Corps Ferrying Command, from James I. Barnes Constr. Co., Central Tower Bldg., Santa Monica. **$83,160.**

†**Calif., Muroc Lake**—GAS FUELING SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Oct. 1, A.C. fueling sys., ing Range, from Flotation Syste... Goodwin Ave., Los Angeles, $81... —ENR 9/4.

Calif., Red Bluff—AIRPORT—... Post Office Bldg., Sacramento, ... tional taxiways, runways, apron... strip, municipal airport, In... from Fredericksen & Westbro... Sacramento, **$233,892.** Est. $214... —ENR 9/25.

Calif., Willows—RUNWAYS, ... Eng., 208 Post Office Bldg., Sacr... ways, landing strip, taxiways, ... municipal airport, near Inv. 11... A. Teichert & Son, Inc., Sacram... Est. **$144,057.** CD 10/1—ENR 10...

†**Mass., Salem**—SEAPLANE ... Guard Div., Treas. Dpt., 14 and ... Wash., D. C., Sept. 22, seaplane ... Guard Station, Winter Isle, from ... Donald Co., 88 Broad St., Bost... **(Correction**—contractors name... ENR 10/2.

Miss., Gulfport—AIRPORT—U. ... bile, Ala., Sept. 30, airport, from ... Co. and Southern Amiesite Asphalt Co., Lexington, Ky. **$444,138.** CAA. CD 9/...

★**New Jersey**—VENTILATION BUILDING—At office General Manager, ... York Auth., 111 8 Ave., New York, N. Y. ... 7, Contr. MHT-58, New Jersey Ventilation building, Lincoln Tunnel, from James J. Waters Corp., 415 Lexington Ave., New York, N. Y., **$519,444.** CD 9/17—ENR 9/18.

Oklahoma — RURAL ELECTRIC LINE — Grand River Dam Auth., Vinita, 47 mi. 66 kva. electric line from Pensacola Dam to Kansas state line, near Miami, Okla., from A. S. Schulman Electric Co., 537 S. Dearborn St., Chicago, Ill. **$264,899.** Est. $238,709.

Okla., Tulsa—AIRPORT—U. S. Eng., Tulsa, Oct. 5, landing field imprvs., two 7,000 ft. and one 4,000 ft. runways, control tower, etc., municipal airport, from C. J. Dorfman, 124 N. La Brea Ave., Los Angeles, Calif., **$389,777.** Est. $455,809. CD 10/2.

★**Que., Chicoutimi** — AERODROME — Dpt. National Defense for Air, Ottawa, Ont., aerodrome for S.F.T. School, from L. G. Ogilvie & Co. Ltd., Keefer Bldg., Montreal, about **$1,000,000.**

CONTRACTS AWARDED

†**Ark., Little Rock**—APRON, TAXIWAY, etc.—U. S. Eng., Gay Bldg., apron, taxiway, drainage facilities, Adams Field Airport Inv. 777-42-11, to Pioneer Constr. Co., Inc., Malverne. **$33,905.** Bids 9/8. CD 8/25.

California—PIPELINE—Southern Calif. Gas Co., 810 S. Flower St., Los Angeles, 16 mi. 18 in. pipeline from Grapevine Sta. to junction with existing transmission line, to Macco-Robertson Co., 815 Paramount Blvd., Clearwater. **$400,000.**

Calif., Blue Canon—TRACK IMPROVEMENTS—Southern Pacific R.R., W. H. Kirkbride, ch. engr., 65 Market St., San Francisco, new track, miscellaneous imprvs., Blue Canon area, own forces. **$100,000.**

Calif., Burbank—HANGAR—Lockheed Aircraft Corp., 1705 Victory Pl., 2 story, concrete, structural steel, flight operations hangar, 1705 Victory Pl., to H. W. Baum & Co., 232 S. Van Ness Ave., Los Angeles, approx. **$450,000.** Parkinson & Parkinson, 434 Title Ins.. Bldg., Los Angeles, archts.

★†**Ga., Valdosta**—RUNWAYS, etc.—U. S. Eng., Jacksonville, Fla., runways, aprons, taxi-strips, drainage facilities, Advanced Twin Engine Flying School, to E. Jack Smith, 758 Hurt Bldg., Atlanta. **$1,257,355.** CD 9/24—ENR 10/2.

†**Me., Presque Isle**—RUNWAY—U. S. Eng., Park Sq., Bldg., Boston, Mass., exten. runway, Army Air Base, to Lane Constr. Co., 37 Colony St., Meriden, Conn., **$94,820.**

Mass., Boston—PLAYGROUND—City of Boston, J. F. O'Connell, mgr. Geo. Robt. White Fund, City Hall, playground, incl. filling, paving, etc., Rochester and Troy Sts., South End, to Berke-Moore Co., 43 Norwood Ave., Newton Centre. **$28,900.** Bids 10/1.

†**Miss., Jackson** — AIRPORT IMPROVEMENTS—U. S. Eng., P. O. Box 60, Vicksburg, concrete parking apron pavement, Jackson Air Corps, to I. C. Garber & Son, Inc., 1184 S. Farish St., **$110,440.** Bids 8/29.. CD 8/25.

†**Miss., Meridian**—APRON PAVEMENT, etc.—U. S. Eng., 1 and Douglas Sts., Wash. D. C., concrete parking apron pavement, Key Field, to Cobb Bros. Constr. Co., Inc., Meridian, **$60,256;** soil cement parking apron, Meridian Air Field, to C. G. Fuller, Barnwell, S. C. **$74,689.**

†**N. J., Bellmawr**—LANDSCAPING—Federal Wks. Agency, 18 and F Sts. N.W., Wash. D. C., landscaping, excavating, grading grounds for defense housing, **WPA.** G. R. Swinton, 930 Atlantic Ave., Atlantic City, WPA and owner's engr. CD 9/29—ENR 10/2.

N. J., Egg Harbor and Galloway—AIRPORT—City of Atlantic City, City Hall, Atlantic City, clearing, grubbing 596 acres land for airport, **WPA. $101,320.** G. R. Swinton, 930 Atlantic Ave., Atlantic City, owner's and WPA engr. CD 9/30—ENR 10/2.

UNCLASSIFIED (Contracts Awarded, Cont'd.)

†N. J., **Fort Hancock (Highland)**—CAMP IMPROVEMENTS—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., excavating, grading, railroads, etc. **WPA. $52,500.** CD 9/17—ENR 9/25.

New Mexico, Malaga—PIPELINE—El Paso Natural Gas Co., El Paso, Tex., pipeline suspension bridge over Pecos River, to Pittsburgh Des Moines Steel Co., 1015 Tuttle St., Des Moines, Ia. **$40,000.** Awarded 10/6. Matthews & Kenan, Smith-Young Tower, San Antonio, Tex., engrs.

N. C., Fletcher—AIRPORT—City of Asheville, L. Lyons Lee, mayor, and City of Hendersonville, A. V. Edwards, mayor, paving 4,000 ft. A runway, 100 ft. wide, widening 4,000 ft. runway, 100 to 150 ft. **WPA. $306,000.**

Oklahoma—TURBINE, etc.—Grand River Dam Auth., Vinita, 16,000 kva. turbine for installation in Pensacola Dam power plant, to Allis-Chalmers Co., 1126 S. 70 St., Milwaukee, Wis., **$106,000** est. $100,000; electric generator, to Westinghouse Electric & Mfg. Co., Union Bank Bldg., Pittsburgh, Pa., **$100,000.**

Pa., Lancaster—TROLLEY RAIL REMOVAL—City and Conestoga Transportation Co., Lancaster, removing trolley rails from former East Belt St. line, paving afterwards, own forces. **$30,000.** CD 9/22—ENR 9/25.

★**Texas**—PIPELINE—Shell Pipe Line Co., Shell Bldg., Houston, 26 mi. 6 in. steel, welded joint pipeline between Big Spring and Westbrook, to Permian Basin Constr. Co., Odessa, approx. **$58,000.** CD 10/1—ENR 10/9, under Big Spring, Tex.

†**Tex., Camp Bowie**—GROUND IMPROVEMENTS—Con. Q.M., imprv. grounds, draining, leveling, filling, Military Area. **WPA. $89,947.**

★†**Washington** — CONDUCTOR — Bonneville Power Admin., P. O. Box 3537, Portland, Ore., furnishing conductor and accessories for No. 2 Midway-Coulee transmission line, Inv. 2192, to Anaconda Wire & Cable Co., 25 Bway., New York, N. Y., **$691,212.** Bids 9/2. CD 9/5—ENR 9/11.

†**Wash., Grand Coulee**—TRANSFORMER DECK—Bureau Reclamation, Grand Coulee, 45x58x755 ft. transformer deck for east powerhouse, Coulee Dam, to Consolidated Builders, Inc., Grand Coulee. Est. **$300,000.** CD 9/8—ENR 9/11.

Wash., Tacoma—FIRE WALL, etc.—Hooker Electrochemical Co., 605 Alexander Ave., fire wall, tanks, to R. T. Early Co., 418 N. 11 St. **$29,202.**

†**Alaska, Yakataga**—RADIO STATION, etc.—Civil Aeronautics Auth., Anchorage, radio station, with telephone, power, water and sewerage sys., and bldgs., to Anderson & Pritchett Constr. Co., Mountainview, Calif., **$34,300.** Bids 9/25. Rejected bids Sept. 25, airport, 1½ mi. gravel road, 15 acres clearing, grubbing, 15,000 cu. yd. grading, etc., $100,000, project postponed indefinitely. CD 9/23.

Alta., Lethbridge—TAXIWAYS, etc.—Dpt. Transport, Ottawa, Ont., widening taxiways, constructing aprons, parking strip, etc., to Doncaster Constr. Co. Ltd., Edmonton. **$35,765.**

Man., Neepawa—AERODROME—Dpt. Transport, Ottawa, Ont., aerodrome development for E.F.T. School, clearing, stumping, grading, hard-surface runways, etc., to Manitoba Eng. Co. Ltd., 204 Lombard Bldg., Winnipeg. About **$245,000.**

Ont., Gananoque — RUNWAY, etc. — Dpt. Transport, Ottawa, developing Relief No. 1 to Kingston, grading, stripping, hard-surface runway, etc., to Storms Contg. Co. Ltd., 49 Givens St., Toronto. About **$33,000.**

Ont., London—TAXI STRIP—Dpt. Transport, Ottawa, hard-surface taxi strip, to Johnson Brothers Co. Ltd., Brantford. **$54,245.**

Ont., Yarmouth Centre — AERODROME — Dpt. National Defense for Air, Ottawa, ground services, Relief Intermediate Aerodrome, to Sterling Constr. Co. Ltd., 2494 Sandwich St., E., Windsor, about **$150,000.**

Sask., Davidson — AERODROME — Dpt. Transport, Ottawa, Ont., aerodrome development, grading, hard-surfaced runways, taxi strips, etc., to Evans Gravel & Surfacing Co. Ltd., Saskatoon. About **$237,000.**

LATIN AMERICA

Mexico—Mexican Govt. Mexico City, plans dam on Thalnepantla River to impound water to irrigate 25,000 acres land, in Cayacoya, state of Mexico. $850,000. Ministry of Communication and Pub. Wks., Mexico City, engrs.

Mexico — Congress has asked President Manuel Avila Camacho to order included in 1942 federal expenses budget 1,000,000 pesos ($210,000) for constructing congressional hall, Mexico City, for Mexican Government, Palacio Nacional, Mexico•••Mexican City Govt., Palacio Municipal, Mexico, D. F., plans 10 small modern public markets, in Mexico City, $320,000.

PUBLIC BUILDINGS

PROPOSED WORK

†**Ala., Anniston**—City plans by P. W. Hofferbert, Dadsden, recreation center. Docket Ala. 1-125, $175,000. **DPW.** CD 7/30—ENR 8/7.

†**Ala., Anniston**—Calhoun Co., health center, Docket Ala. 1-151. $44,500. **DPW.**

†**Ala., Childersburg**—Town, recreation bldg., Docket Ala. 1-133. $175,000. **DPW.**

★†**Ala., Gadsden**—Republic Steel Corp., C. W. White, vice pres. in charge operation, C. A. Thayer, ch. engr., Republic Bldg., Cleveland, 800 ton steel furnace, structural steel, steel plate construction. $1,000,000. Defense Plant Corp. will finance.

†**Ala., Talledga**—City, plans by C. H. McCauley, Jackson Bldg., Birmingham, recreational center, Ala. 1-125, $60,000. Defense funds approved.

†**Ariz., Tucson** — City, recreation bldg., Docket Ariz. 2-106. $50,000. **DPW.**

★†**Ark., El Dorado**—War Dpt., 20 St. and Constitution Ave., N.W., Wash., D.C., anhydrous ammonia and ammonium nitrate plant, known as Ozark Ordnance Works.

†**Calif., Artesia** — Bloomfield Elementary School Dist., Los Angeles Co., school addn., Docket Calif. 4-159. $49,000. **DPW.**

★**Calif., Berkeley**—Berkeley Unified School Dist., plans by W. G. Corlett and H. H. Gutterson, Bank of America Bldg., Oakland, rein.-con., steel auditorium. $950,000.

†**Calif., Burbank**—City, recreation bldg., Docket Calif. 4-243. $75,000, **DPW.**

†**Calif., Downey**—Downey Union High School Dist., Los Angeles Co., Junior-Senior High School addn., Docket Calif. 4-129. $73,127. **DPW.**

†**Calif., Inglewood**—City, recreation bldg., Docket Calif. 4-108. $75,000. **DPW.**

†**Calif., Lemoore**—City, recreation bldg., Docket Calif. 4-235. $45,000. DPW.

★†**Calif., Long Beach**—Div. Defense Housing, FWA, 1206 Santee St., Los Angeles, plans by E. Weston, Architect Bldg. and W. L. Reichardt, 816 W. 5 St., both Los Angeles, 600 unit defense housing for shipyard workers, Project 4102X. $1,250,000. R. Howard Gailey, engr., H. A. Barnett, 35 S. Raymond Ave., Pasadena, civil engr. CD 10/1—ENR 10/9.

†**Calif., Monterey**—Monterey City School Dist. of Monterey County, plans by R. Stanton, Del Monte Hotel, Del Monte, 3 elementary school addns., Docket Calif. 4-106. $160,000. CD 9/4—ENR 9/11.

†**Calif., National City**—National City School Dist., San Diego Co., school addns., Docket Calif. 4-135. $86,900. **DPW.**

Calif., Pomona—Los Angeles Co., Hall of Records Bldg., Los Angeles, county fair bldg. $440,000.

★†**Calif., Salinas**—Supervs. Monterey Co., hospital alterations, addns., Docket Calif. 4-120. $527,606, **DPW.** CD 7/21—ENR 7/24.

†**Calif., San Luis Obispo**—San Luis Obispo Co., health clinic bldg., Docket Calif. 4-150, $122,477, **DPW.**

Calif., Santa Cruz—Santa Cruz High School Dist., plans being completed by L. R. Duckering, 27 Front St., 1 story, 48x78 ft., rein.-con. machine shop.

†**Calif., Victorville** — Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket Calif. 4-270. $45,000. **DPW.**

†**Conn., Bridgeport**—City, school, Docket Conn. 6-109. $100,000. **DPW.**

†**Conn., Groton**—Town, high school addn., Docket Conn. 6-111. $116,000. **DPW.**

★†**Conn., Hartford**—City, isolation hospital, Docket Conn. 6-104. $513,313. **DPW.**

Conn., New London—W. T. Hopson, pres. Bd. City Trustees, 3 story, brick, steel high school addn., Waller St. $150,000. Applied for federal gr. CD 7/23—ENR 7/31.

Conn., Stamford—Bd. Educ., Supt. Schools, 59 Prospect St., Junior High School, Hope St. and Toms Rd. $150,000.

†**Conn., Stratford**—Town, for Industrial Arts Bldg. addn. of Stratford High School, Docket Conn. 6-136. $39,611. **DPW.**

†**Conn., Windsor Locks**—Town, recreation bldg., Docket Conn. 6-154. $45,000. **DPW.**

†**Fla., Pensacola**—City, recreation bldg., Docket Fla. 8-140. $90,565. **DPW.**

†**Ga., Hinesville**—City, recreation center, Docket Ga. 9-124. $12,000. **DPW.**

†**Ga., Macon**—City, recreation bldg., Docket Ga. 9-157. $50,000. **DPW.**

†**Idaho, Boise**—State, health center, Docket Idaho 10-102. $45,000. **DPW.**

★**Ill., Decatur**—Decatur Housing Auth., B. Martin, exec. dir., housing units for negroes. $500,000.

★**Ill., Granite City**—General Steel Castings Corp., Eddystone, Pa., plant for manufacture ordnance equip., for War Dpt. $3,268,400 for land and buildings, $10,731,600 machinery and equip. Defense Plant Corp. will finance.

★†**Ill., Rockford**—W. F. & John Barnes Co., 301 S. Water St., acquiring site, constructing, equipping plant for manufacturing shells, for War Dpt. $2,000,000. Defense Plant Corp. will finance. Additional to CD 3/6—ENR 3/13, under CA.

★†**Ill., Rockford**—Winnebago County Housing Auth., Rockford, 350 housing units for defense industrial workers, for USHA, Project 11112X. $1,400,000.

★†**Ind., East Chicago**—Continental Roll & Steel Fdry. Co., 4407 Railroad Ave., plant for manufacture ordnance equip., for War Dpt. $280,030 for land and buildings, $1,487,114 for machinery and equip. Defense Plant Corp. will finance.

★†**Ind., Fort Wayne**—General Electric Co., 1 River Rd., Schenectady, N. Y., plant for manufacture aircraft equip., for War Dpt. $8,427,471 for land and buildings, $16,584,367 for machinery and equip. Defense Plant Corp. will finance. CD 8/1—ENR 8/7.

†**Ind., Marion**—Veterans Admin., Arlington Bldg., Wash., D. C., received no bids Sept. 23, Clinical Bldg. 124. CD 8/15—ENR 8/21.

Ia., Logan—C. L. Strong, mayor, light plant and distr. sys. $45,000.

Kan., Galena — Bd. Educ., F. W. Speck, mayor, plans by E. J. Wolpert, Mercantile Bldg., Chanute, altering, constructing high school addn. $225,000. Applied to FWA.

†**Kan., Manhattan**—Con. Q.M., 14 and Farnum Sts., Omaha, Neb., recreation bldg.

†**Kan., Wichita** — City Bd. Educ., school, Docket Kan. 14-109. $172,136. **DPW.**

†**Ky., Elizabethtown**—City, recreation bldg., Docket Ky. 15-132. $80,000. **DPW.**

†**Ky., Henderson**—State Bd. Health, Frankfort, health center, Docket Ky. 15-106. $69,200. **DPW.**

★**Ky., Louisville**—Louisville Municipal Housing Comm., Equitable Bldg., plans by O. P. Ward, ch. archt., Washington Bldg., 725 dwelling units. $2,225,000. Joseph & Joseph, Breslin Bldg., and A. E. Weinedel, Washington Bldg., assoc. archts.

†**La., Alexandria**—Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket La. 16-123. $122,967. **DPW.**

†**Md., Edgewood**—Comrs. Hartford Co., recreation bldg., Docket Md. 18-129. $33,000. **DPW.**

Md., Glen Burnie — Glen Burnie Imprvt. Assn., Incorporated (Governing Body of Unincorporated Town), recreation bldg., Docket Md. 18-139. $28,000. **DPW.**

†**Mass., Pittsfield** — Div. Defense Housing, FWA, 18 and F Sts. N.W., Wash., D. C., 100 housing units for industrial defense workers.

†**Mass., South Weymouth**—Weymouth Hospital, hospital extens., addns., alterations, Docket Mass. 19-109. $150,000. **DPW.**

★†**Mich., Grand Rapids**—Extruded Metals Defense Corp., Belding, plant for manufacture extruded aluminum alloys, for War Dpt. $2,300,000 for land and buildings, $3,966,000 for machinery and equip. Defense Plant Corp. will finance.

†**Mich., Mount Clemens** — City, recreation bldg., Docket Mich. 20-138. $45,000. **DPW.**

†**Mich., Warren Twp.**—School Dist. 5, Warren Twp., recreation bldg., Warren Twp., Macomb Co., Docket Mich. 20-150. $71,500. **DPW.**

†**Mich., Warren Twp.**—School Dist. 7, school, Warren Twp., Macomb Co., Docket Mich. 20-142. $42,300. **DPW.**

†**Miss., Pascagoula**—C. F. Palmer, coordinator Defense Housing, 811 Vermont Ave. N.W., Wash., D. C., 50 temporary defense housing units.

Miss., Pascagoula—W. R. Gulley, mayor, school. $150,000. Applied for DPW funds.

Mont., Missoula—Montana State University, armory, gymnasium and classroom. $250,000. Seeking Federal gr.

★†**Neb., Omaha**—Farm Credit Admin., L. W. Powers, genl. agt., 206 S. 19 St., 5 story office bldg., Dodge St. from 19 to 20 Sts. $800,000.

★†**N. H., Laconia**—Scott & Williams, Inc., Laconia, plant for manufacture aircraft equip. for War Dpt. $609,331. Defense Plant Corp. will finance.

†**N. H., Portsmouth** — City, Supt. Schools, plans by Wells, Hudson & Granger, Main St., Hanover, brick, steel school addn., Atlantic Heights, Docket N.H. 27-101. $182,220. **DPW.** CD 9/30—ENR 10/2.

†**N. J., Browns Mills**—Con. Q.M., 120 Wall St., New York, N. Y., recreation bldg.

N. J., Newark — Quartermaster General Dpt., State House, Trenton, National Guard Armory.

†**N. J., Pointsville**—Con. Q.M., 120 Wall St., New York, N. Y., recreation bldg.

†**N. J., Wrightstown**—Con. Q.M., 120 Wall St., New York, N. Y., recreation bldg.

PUBLIC BLDGS. (Proposed Work, Cont'd.)

N. Y., Brooklyn—Dpt. P. Wks., Municipal Bldg., New York, plans by G. M. Malcolm, c/o owner, altering 6 story hospital, 264 Skillman Ave. $200,000.

N. Y., Tuckahoe—Tuckahoe Housing Auth., Village Hall, bids in December, 60 suite apartment. $292,500. LeRoy Ward, Inc., 509 Madison Ave., New York, archts. CD 4/8—ENR 4/10.

†**N. Y., Watertown**—Con. Q.M., 120 Wall St., New York, N. Y., recreation bldg.

†**N. C., Fayetteville**—Con. Q.M., 494 Spring St., N.W., Atlanta, Ga., 2 recreation bldgs.

★**N. C., High Point**—E. M. Knox, city mgr., auxiliary steam plant. $1,500,000. Will apply for PWA loan and gr. W. C. Olsen, 5 Exchange Pl., Raleigh, engr.

†**N. C., New Bern**—City, recreation bldg., Docket N.C. 31-152. $28,000. **DPW.**

†**N. C., Spring Lake**—Con. Q.M., 494 Spring St., N.W., Atlanta, Ga., recreation bldg.

†**N. C., Swansboro** — Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket N.C. 31-134. $20,000. **DPW.**

O., Alliance—Trustees City Hospital, enlarging city hospital. $400,000. Applied for federal gr.

O., Cleveland—F. J. Bubna, city dir., City Hall, bond election Nov. 4, brick, steel, concrete, out-patients bldg. $400,000, renovating various bldgs. of city hospital group. $320,000. H. Kregelius, city archt. CD 8/11—ENR 8/14.

★**O., Cleveland**—Republic Steel Corp., C. M. White, vice pres. in charge operation, C. A. Thayer, ch. engr., Republic Bldg., two 1,275 ton blast furnaces, 2 batteries of coke ovens of 75 ovens ea., by-product recovery plant, additional dock facilities, etc. $14,000,000. Defense Plant Corp. will finance. CD 9/4—ENR 9/11.

O., Euclid—K. Sims, mayor, 585 E. 222 St., 2 brick, steel, concrete fire stations. $150,000. F. Thomas, city engr.

O., Lorain—G. S. Smith, secy. Lorain Planning Comn., city hall and civic auditorium. Over $150,000.

†**O., Newton Falls**—Village, recreation bldg., Docket Ohio 33-154. $66,530. **DPW.**

★**O., Warren**—Republic Steel Corp., C. M. White, vice pres. in charge operations. C. A. Thayer, ch. engr., Republic Bldg., Cleveland, 61 coke ovens, wharf, coke handling equip., coke screen sys., by-products bldg., sintering plant. $2,000,000. Defense Plant Corp. will finance. CD 8/27—ENR 9/4.

★**O., Youngstown**—Republic Steel Corp., C. M. White, vice pres. in charge operation, C. A. Thayer, ch. engr., Republic Bldg., Cleveland, 1,120 ton steel furnace, structural steel, steel plate construction. $3,000,000. Defense Plant Corp. will finance. CD 8/27—ENR 9/4.

†**Ore., Astoria**—Pub. Bldgs. Admin., 7 and D Sts. S.W., Wash., D. C., 100 housing units for enlisted and civilian personnel, Naval Air Station. $350,000.

†**Ore., Astoria** — City, recreation bldg., Docket Ore. 35-120. $45,000. **DPW.**

†**Ore., Hammond**—City, recreation center, Docket Ore. 35-112. $4,200. **DPW.**

†**Ore., Hermiston**—City, recreation center, Docket Ore. 35-123. $36,151. **DPW.**

†**Ore., Hermiston**—Public School Dist. 14, plans by H. E. Crawford, Walla Walla, altering existing school and reconditioning portion of another, Docket Ore. 35-102. $8,360. **DPW.** CD 10/2—ENR 10/9.

†**Ore., Hermiston**—Union High School Dist. 9, Umatilla Co., remodeling school, Docket Ore. 35-101. $3,000. **DPW.**

★†**Ore., Portland**—Div. Defense Housing, FWA, 18 and F Sts. N.W., Wash., D. C., 400 housing units for industrial defense workers. $1,400,000.

†**Ore., Portland**—U. S. Eng., 628 Pittock Blk., bids soon warehouse and motor repair shops, Portland-Columbia Airbase. CD 7/9—ENR 7/17.

†**Ore., Warrenton**—School Dist. 30, Clatsop Co., school addn., Docket Ore. 35-111. $26,442. **DPW.**

†**Pa., Phila.**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., ward bldgs. $280,000.

†**Pa., Phila.**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., plans by G. W. Pepper, Jr., 1600 Walnut St., ward bldgs., barracks. $280,000. CD 10/8—ENR 10/16.

S. C., Columbia—Richland Co. plans by Lafaye, Lafaye & Fair, 1226 Sumters St., brick, steel Columbia Hospital addn. $350,000. CD 4/19—ENR 4/25.

†**S. C., Spartanburg**—City, recreation bldg., Docket S.C. 38-137. $34,000. **DPW.**

†**S. C., Spartanburg**—City, recreation bldg., Docket S.C. 38-138. $93,720. **DPW.**

Tenn., Nashville—Davidson Co. Bd. Educ., Nashville, S. Corbitt, chn., plans by Dougherty & Clements, 3rd Natl. Bank Bldg., school. $150,000.

Tenn., Shelbyville — J. B. Fierson, mayor, recreational center. $100,000.

†**Tenn., Tullahoma** — Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket Tenn. 40-134. $82,000. **DPW.**

Tenn., Winchester—School Bd., high school. $300,000.

†**Tex., Abilene**—Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket Tex 41-294. **DPW.** CD 9/25—ENR 10/2.

Tex., Bridgeport—Voted bonds electric light and power plant and sys. $70,000.

Tex., Carthage — Voted bonds, light and power plant. $150,000. CD 9/12—ENR 9/18.

★**Tex., Corpus Christi** — City, A. C. McCaughan, mayor, and Nueces Co., c/o Judge, Corpus Christi, 5 story hospital, 4 story nurses home, 5 story tuberculosis bldg., 2 story utility bldg. $1,500,000 total cost. Bond election Nov. 21. Applied for DPW gr. Brock, Roberts & Anderson, Jones Bldg., archts. Matthews & Kenan, Smith Young Tower, San Antonio, engrs. CD 10/8.

†**Tex., Corpus Christi**—Flour Bluff Common School Dist. 22, Nueces Co., plans by G. E. Newhall, 509 Aubrey St., school, Docket Tex. 41-126. $150,000. **DPW.** CD 9/4—ENR 9/11.

Tex., Corpus Christi—A. C. McCaughan, mayor, bond election about Nov. 21, central fire station. $175,000.

Tex., Dallas—Bd. Educ., C. M. Moore, mgr., plans by Lang & Witchell, 1st Natl. Bank Bldg., 2 story, brick, stone, concrete, Forest Ave. High School unit. $350,000.

†**Tex., El Campo**—Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket Tex. 41-236. $45,000. **DPW.**

Tex., Freeport—State, c/o Health Dpt., Austin, plans by Shingle & Scott, 218 Littlefield Bldg., Austin, public health and clinic bldg., facilities. $162,000. Applied for DPW funds.

Tex., Harlingen—Valley Baptist Hospital, Harlingen, hospital. $168,000. Applied for DPW funds.

★**Tex., Houston**—Voted bonds, tuberculosis hospital. $650,000. CD 9/16—ENR 9/18.

Tex., Houston—State, c/o Dr. G. W. Cox, health officer, Houston, plans by Shingle & Scott, 918 Littlefield Bldg., Austin, 2 story, 179x248 ft., brick, hollow tile, public health and clinic building, Tex. 41-363. $202,714. Applied for DPW funds.

Tex., Kingsville—Texas College of Arts and Industries, Kingsville, plans by Phelps & DeWees & Simmons, Majestic Bldg., San Antonio, auditorium. $150,000.

Tex., McAllen—Bd. Educ., McAllen, plans by D. C. Baer, 903 W. 24 St., Austin, school and gymnasium. $160,000. Applied for DPW funds.

†**Tex., Mineral Wells**—City, municipally owned bldg. addn. to be used for health center, Docket Tex. 41-178. $74,000. **DPW.** CD 8/6—ENR 8/14.

Tex., Mission—Ind. School Dist., c/o A. F. Volz, pres. Bd., Mission, plans by B. Cooke, 615 Maverick Bldg., San Antonio, school imprvs. Tex. 41-360. $190,894. Applied for DPW funds. CD 9/18—ENR 9/25.

Tex., Orange—A. Sokolski, mayor, plans by Steinman & Goldman, Box 3267, Beaumont, 2 story, 46x160 ft., brick, steel, rein.-con., stone hospital. $159,311. Applied for DPW funds.

†**Tex., Palacios**—City, recreation bldg., Docket Tex. 41-130. $90,000. **DPW.**

†**Tex., Port Lavaca**—Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket Tex. 41-235. $28,000. **DPW.**

†**Tex., San Antonio**—City, acquisition and reconstructing existing bldg. for recreation center. Docket Tex. 41-192. $95,000. **DPW.**

Tex., San Antonio—San Antonio Independent School Dist., c/o L. Brewer, plans by Phelps & DeWees & Simmons, Majestic Bldg., 4 brick, rein.-con. school bldg. units, $168,000; 10 room auditorium, brick, concrete Junior-Senior High School, $175,000; 1 story, brick, concrete school. $150,000. Applied for DPW funds.

†**Tex., San Antonio** — U. S. Eng., Federal Bldg., Galveston, rejected bids Sept. 15, hospitalization and medical service bldgs., utilities. Will revise plans and readvertise. CD 9/17—ENR 9/25.

†**Tex., San Antonio**—U. S. Eng., Federal Bldg., Galveston, administration bldg., Kelly Field. $150,000.

Tex., San Marcos—Southwest Texas State Teachers College, c/o C. E. Evans, pres., San Marcos, plans by H. P. Smith, Natl. Bank of Commerce Bldg., San Antonio, 3 story, brick, rein.-con., structural clay tile, vocational bldg. $225,000. Applied for DPW funds. CD 10/1—ENR 9/25.

†**Tex., South San Antonio**—Bexar Co., recreation bldg., Docket Tex. 41-191. $79,000. **DPW.**

†**Tex., Texarkana** — Texarkana Housing Auth., 400 housing units for industrial defense workers, for USHA.

†**Tex., Weatherford**—City, municipally owned bldg. addn. to be used as health center, Docket Tex. 41-242. $11,188. DPW.

†**Tex., Wharton**—Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket Tex. 45-237. $[illegible] DPW.

†**Tex., Wichita Falls** — Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., etc., Docket Tex. 41-214. $75,000. **DPW.**

Utah, Murray — R. B. Rasmussen, city recdr., $200,000 bond election Nov. 4, steam generating plant. H. Bletzacker, Murray, city engr. CD 6/19—ENR 6/26.

†**Va., Hampton**—Hampton Training School for Nurses, for Dixie Hospital, Hampton, Va. 44-122. $201,700. **DPW.**

†**Va., Newport News**—City, recreation center, Docket Va. 44-124. $200,000. DPW.

†**Va., Newport News**—Newport News General and Non-Sectarian Hospital Assn., Inc., Riverside Hospital, alteration, addn., etc., Docket Va. 44-170. $298,120. DPW.

†**Va., Phoebus** — Federal Security Agency, 25 and E Sts. N.W., Wash., D. C., recreation bldg., Docket Va. 44-203. $25,000. DPW.

†**Va., Virginia Beach**—Con. Q.M., Standard Oil Bldg., Baltimore, Md., recreation bldg.

★†**Wash., Bremerton**—City, hospital and nurses home, Docket Wash. 45-124. $661,760. **DPW.** CD 8/18—ENR 8/21.

†**Wash., Coupeville** — Consolidated School Dist. 204, Island Co., plans by W. Mallis, Lyon Bldg., Seattle, school, Docket Wash. 45-102. $150,000. **DPW.** CD 10/2—ENR 10/9.

†**Wash., Olympia**—City, recreational bldg. for United Service Organizations, Docket Wash. 45-112. $75,000. **DPW.**

†**Wash., Pleasant Valley**—School Dist. 25, school addn., Docket Wash. 45-116. $22,000. **DPW.**

†**Wash., Port Townsend**—Jefferson Co., recreation center, Docket Wash. 45-132. $45,000. **DPW.**

†**Wash., Poulsbo**—Union High School Dist. 4, Kitsap County, 2 story high school addn., Docket Wash. 45-115. $175,000. **DPW.**

★**Wash., Renton**—Renton Housing Comm., H. Williams, chn., City Hall, 1,000 housing units. $3,500,000.

★**Wash., Seattle** — Seattle Housing Auth., Central Bldg., indefinitely postponed bids to have been opened Sept. 15, 168 additional low cost housing units, Yesler Terrace Project. $500,000. USHA. Holmes, Aitken, Bain, Stoddard & Jacobsen, Lloyd Bldg., archts. CD 8/8—ENR 8/14.

†**Wash., Silverdale**—Union High School Dist. 6, Kitsap Co., school addn., Docket Wash. 45-123. $68,959. **DPW.**

★**Wash., Tacoma**—Clover Park School Dist. 400, grade schools, American Lake South and Lakeview, enlarging other schools. $772,000. Applied to DPW. CD 8/1—ENR 8/7.

†**Wash., Tacoma** — City, 2 United Service Organizations recreation centers, one at Y and A Sts., other South Tacoma, Docket Wash. 45-111. $139,885. **DPW.**

†**Wash., Tacoma**—Pub. Bldgs. Admin., 7 and D Sts. S.W., Wash., D. C., 400 housing units for industrial defense workers.

†**W. Va., South Charleston** — Town, community bldg. addns., Docket W. Va. 46-101. $73,000. **DPW.**

★†**W. Va., Wheeling**—Continental Roll & Steel Fdry. Co., 4407 Railroad Ave., East Chicago, Ind., plant for manufacture ordnance equip. for War Dpt. $240,801 for land and buildings, $1,275,006 for machinery and equip. Defense Plant Corp. will finance.

†**Wis., Manitowoc**—City, school addn., alterations, Docket Wis. 47-101. $60,000. **DPW.**

†**Alaska, Seward**—City Hall, addn. for recreation center. $5,000. **DPW.**

Alta., Edmonton—Dominion Govt., Ottawa, Ont., 1 story, 103x142 ft. machine and repair shop, concrete fdn. $40,000. Dpt. Munitions & Supply, Ottawa, Ont., engrs.

BIDS ASKED

Bids Asked October 20

★†**Wash., Seattle** — Seattle Housing Auth., Central Bldg., two hundred 1 story frame bldgs. for 700 unit defense housing, Gatewood Heights, Project 45053-X, for USHA. $2,500,000. Holmes & Jones, Old Times Bldg., archts. DeWitt C. Griffin, Lloyd Bldg., engr. CD 10/6—ENR 10/9.

Bids Asked October 21

†**Ark., Blytheville**—Farm Security Admin., Donaghey Bldg., Little Rock, farmstead unit bldgs.

Bids Asked October 22

†**Ill., Rock Island**—U. S. Eng., Rock Island, motor shop and engineer depot, Arsenal Island, Inv. 741-42-29.

†**Mich., Mount Clemens**—U. S. Eng., Federal Bldg., Detroit, 1 story, brick, frame motor repair shop and oil storage house, for Selfridge Field. About $46,000. CD 6/30—ENR 7/3.

UBLIC BLDGS. (Bids Asked, Cont'd.)

Bids Asked October 23

Tex., **El Paso**—President Bd. Regents, Uni- rsity of Texas, at office President College Mines and Metallurgy, El Paso, audi- rium bldg., College of Mines and Metal- rgy campus. P. McGhee, 425 1st Natl. nk Bldg., archt. CD 3/7—ENR 3/13.

Bids Asked October 28

†**Mass., Springfield**—Con. Q.M., Springfield rmory, constructing gun stock shop, utilities, ringfield Armory; adv. ENR 10/16.

Bids Asked About November 1

†**Mass., Chicopee Falls**—U. S. Eng., 819 In- strial Trust Bldg., Providence, R. I., ord- nce facilities, brick, steel, concrete maga- es, etc., Westover Field. $200,000. CD 1—ENR 9/18.

Bids Asked November 3

Calif., **Richmond** — Richmond Housing uth., W. J. Richards, Jr., chn., 271-10 St., 0 duplex dwelling units, Project Cal. 10-2. ntative date. K. O. Narbett, 468 31 St., chmond, E. G. Bangs, 1404 Franklin St., kland, and L. W. Hurd, 442 Post St., San ancisco, archts.

Bids Asked November 7

★La., **Shreveport** — Shreveport Housing Auth., Elamite Terrace Housing, Project 2-1, comprising 26 dwelling bldgs. con- ining 270 dwelling units, administration ilice bldg., 2 yard stations, etc. $1,020,000. SHA. Neild, Somdal & Neild, City Bank dg., archts. CD 7/23 and 7/24—ENR 7/31.

Bids Asked November 20

Tex., **Galveston**—Galveston Housing Auth., c/o L. W. Henslee, exec. dir., City Hall, ander Homes for whites, 1 and 2 story, rk. concrete dwellings, 53 St. and Ave. J. 0,000. Associated Housing Archi- cts, Trust Bldg., archts. J. W. Beretta Engi- ers, Natl. Bank of Commerce Bldg., San ntonio, engrs. CD 8/18—ENR 8/21.

Bids Asked

Ill., **Stickney (mail Argo)**—J. E. Coyle, rchit., 215 Herkimer St., Joliet, 3 story gh school, 77 St. and Austin Ave., for School ist. 229, c/o M. J. Conway, 8715 S. Nor- ndy St., Oak Lawn. $400,000. CD 5/13— NR 5/15.

OW BIDDERS

★Ala., **Mobile**—U. S. Eng., Federal Bldg., substructure for Ocean Terminal develop- ent, Brooklyn Field, Proposal 569-42-186, m United Constr. Co., Winona, Minn., 2,250,753. CD 9/23—ENR 9/25.

Ariz., **Tucson**—Bd. Trustees School Dist. 1, W. Fickett, pres., Oct. 7, Catalina Jr. igh School addn., from Jay J. Garfield ilding Co., 725 E. 16 St. **$171,000.** Est. 50,000. CD 9/23—ENR 9/25.

Calif., **Fresno**—Fresno Housing Auth., H. F. llard, exec. dir., 712 Mattei Bldg., Oct. 2, 5 unit housing, Projects Calif. 6-1, 6-2 and 3, from Moore & Roberts, 693 Mission St., n Francisco, **$410,777,** exclusive of plumb- g, electrical work, landscape work and uip. CD 9/16—ENR 9/18.

Idaho, **Moscow**—State Dpt. P. Wks., Boise, pt. 30, dairy bldg., from Kloepfer & Cahoon, ise. **$81,305.** CD 9/23—ENR 9/25.

Idaho, **Twin Falls**—Twin Falls Housing uth., 1530 Poplar Ave., D. J. Wakem, dir., t. 3, 56 unit housing, from R. D. Merrill, elena, Mont. **$181,943.** CD 9/18—ENR 9/25.

Ill., **Rockford** — Winnebago Co. Housing Auth., Rockford, Oct. 6, 200 housing units, m Paul Steenberg Constr. Co., W1757 1st atl. Bank Bldg., St. Paul, Minn., **$777,000.** D 9/3—ENR 9/11.

Ky., **Lexington**—Commonwealth of Ky., Eng. Constr. Div., c/o R. C. Wyatt, ch. engr., rankfort, modernizing, fireproofing Ward 2, ern State Hospital, from Skinner Bros., 1 E. Main St., **$459,384.** D. B. Liberman, 115 milton Park, archt.

Minn., **Austin**—J. H. Weiland, city clk., pt. 26, furnishing, installing steam generat- g unit, municipal power plant, from Fuel onomy Eng. Co., 510 New York Bldg., St. ul. **$189,880.** CD 8/28—ENR 9/4.

N. Y., **New York**—Dpt. P. Wks., Municipal ldg., Oct. 7, Contr. 2, structural steel, Night- gale Hospital, 163rd St. between Riverside and Fort Washington Ave., from Harris ructural Steel Co., 419 4 Ave., **$189,950***** nstr. 1, excav., footings, from Depot Constr. 450 7 Ave., **$76,000*****Contr. 3, concrete r, roof arches, from Aetna Fireproofing Co., 15 E. 40 St., **$84,960.** CD 10/6—ENR 9.

†Okla., **Oklahoma City**—U. S. Eng., Tulsa, t. 2, motor repair shop, storehouse, oil rage house, altering existing recreation dg., Will Rogers Field, near here, from E. A. sh Constr. Co., 3500 W. Reno St. **$76,079.** D 9/26.

†Pa., **Clairton**—Div. Defense Housing, FWA, 18 and F Sts. N.W., Wash., D. C., t. 3, 138 defense housing units. Project 152 X, from Navarro Corp., 6219 Broad St., tsburgh, **$396,000.** CD 9/26.

★†Pa., **Vanport**—Beaver County Housing Auth., R. Bennett, chn., Court House, Beaver, 125 defense housing units for USHA, Project 36053 X, from John W. Ryan Constr. Co., Inc., 369 Lexington Ave., New York, N. Y., **$550,350.** CD 9/2—ENR 9/4.

★†Pa., **West Mayfield**—Beaver County Housing Auth., R. Bennett, chn., 119-9 St., Monaca, Oct. 4, 170 defense housing units, Project 36054X, for USHA, from J. O. Burgwin & Co., Professional Bldg., Pittsburgh, **$755,700.** CD 10/2.

†**Wash., Everett**—Div. Defense Housing, FWA., 18 and F Sts. N.W., Wash., D. C., Oct. 3, 85 housing units for Army Air Base, Project 54071 X, from Dahlgren & Wick, 1362 30 Ave. S., Seattle. **$296,659.** Naramore & Associates, Dexter Horton Bldg, Seattle, archts. CD 8/27—ENR 9/4.

CONTRACTS AWARDED

†**Ala., Childersburg**—Childersburg Housing Auth., 100 housing units for Army civilian personnel employed at Coosa River Ordnance Plant, Project 1071-X, for USHA, to Algernon Blair, 1st Natl. Bank Bldg., Montgomery, **$263,423.** Bids 9/18. CD 9/15.

†**Calif., Stockton**—Con. Q.M., Fort Mason, San Francisco, altering and repairing grain reconditioning warehouse, 4th Echelon Base Motor Repair Shop, Inv. W-7215-42-2, to Neilsen, Erbentraut & Summers, 446 6 St., San Francisco, **$67,770.** Bids 9/30. CD 9/24.

†**Ind., Fort Wayne**—U. S. Eng., 605 Federal Bldg., Detroit, Mich., ordnance storage bldgs., Baer Field, to Hagerman Constr. Co., 402 Superior St., **$139,190.** CD 6/24.

★†**Md., Baltimore**—Pub. Bldgs. Admin., 7 and D Sts. S.W., Wash., D. C., 250 defense housing units, Aircraft Plant, Sparrows Point, Project 18095, to Samuel Plato, 601 W. Walnut Ave., Louisville, Ky. Total est. **$1,199,000.**

★†**Md., Suitland**—Pub. Bldgs. Admin., 7 and D Sts. S.W., Wash., D. C., Federal Office Bldg. 3, to McCloskey & Co., 1618 W. Thompson St., Phila., Pa. **$2,749,000,** cost-plus-fixed-fee basis. CD 7/14—ENR 7/17.

†**N. J., Long Branch** — National Youth Admin., 1060 Broad St., Newark, 1 story, 50x120 ft. prefabricated steel, concrete vocational machine shop training shop, own forces. **$250,000** incl. equip. Butler Mfg. Co., 7400 E. 3 St., Kansas City, Kan., archt. and engr.

†**N. J., Newark**—National Youth Admin., 1060 Broad St., 1 story, 24x100 ft. office and drafting room, Port St., own forces.

†**N. Y., Hempstead**—U. S. Eng., 17 Battery Pl., New York, motor repair shop and oil storage house, Mitchell Field, to VB Constr. Co., Inc., 516 5 Ave., New York. **$41,400.** Bids 10/2. CD 9/16—ENR 9/18.

★†**N. C., Fort Bragg**—Con. Q.M., 66 mobilization bldgs., to V. P. Loftis Co., Inc., Builders Bldg., Charlotte. **$857,050.** CD 7/1—ENR 7/10.

Ore., Pendleton—Pub. Bldgs., Admin., 7 and D Sts. S.W., Wash., D. C., 85 housing units, to Hazen & Clark, 809 Gordon St., Spokane, Wash. **$311,000.**

★†**Tenn., Camp Forrest**—Con. Q.M., mess, administration bldgs., barracks, company admin. and storehouse, also motor repair shops, grease and wash racks, oil houses, incl. utilities, to Foster & Creighton Co., Amer. Natl. Bank Bldg., Nashville. **$392,-100** and **$150,800** respectively; induction bldg., day rooms, officers mess, ambulance garage, hospital recreational bldg., hospital barracks, hospital admin., etc., to Smith & Pew Constr. Co., 2117 Piedmont Rd. N.E., Atlanta, Ga., **$253,447.** Grand total $796,347.

★†**Tenn., Copperhill**—Tennessee Copper Co., 61 Bway., New York, N. Y., design and construction oleum plant, East Tennessee Ordnance Works, for War Dpt., to Leonard Constr. Co., 37 S. Wabash St., Chicago, Ill. **$2,038,844** for construction. **$1,302,000** equip. and machinery. CD 7/1—ENR 7/10, under Chattanooga.

Tex., Lubbock—Texas Technological College, c/o S. Wells, vice pres. Bd. Dir., general contract ground floor and 2 story, brick, stone, concrete agricultural college, and plumbing, heating, to Ingle & Sikes Constr. Co., Lubbock, **$232,673** and **$51,648** respectively; wiring, to Ansley Elec. Co., Lubbock, **$19,236.** Grand total $303,557. Bids 10/2. CD 9/16—ENR 9/18.

†**Va., Fort Myer**—Con. Q.M., Bldg. 202, Fort Myer, reconstructing, enlarging Barracks Bldg. 108. Inv. 6141-42-2, to F. H. Martell Co., Inc., Insurance Bldg., Wash., D. C. **$284,920.** Bids 9/15, awarded 9/29—CD 9/4.

P. R., Isabella—Isabella Housing Auth., 170 unit Manuel Corchardo Juarbe Development, P.R. 2-9, for USHA, to M. J. Nolla, Humacao, P. R., **$318,040.** Bids 9/9, awarded 10/4. CD 8/29.

★**Ont., Kingston**—Wartime Housing Ltd., 55 York St., Toronto, 250 bungalows, 3 staff houses, commissary bldg. and dining hall, to Hill-Clark-Francis, Ltd., New Liskeard. About **$650,000.** CD 8/4—ENR 8/7.

★**Que., St. Malo**—Secy. Dpt. Munitions & Supply, Ottawa, Ont., 1 story, 457x560 ft., rein.-con. cartridge plant, for Dpt. National Defense, Ottawa, Ont., to Anglin-Norcross, Quebec Ltd., 892 Sherbrooke St. W., Montreal. **$800,000.** H. Laberge, 140 St. Jean St., Quebec, archt. CD 9/23—ENR 9/25.

COMMERCIAL BUILDINGS

PROPOSED WORK

Ark., North Little Rock—T. H. Cleveland, 2 and Center Sts., Little Rock, 30 residences, $150,000.

Calif., Eureka—F. W. and F. T. Georgeson, Georgeson Bldg., medico-dental bldg. with emergency hospital unit, etc. $150,000.

Calif., Glendale—Fox West Coast Theatres Corp., 1609 W. Wash. Blvd., plans by S. C. Lee, 1648 Wilshire Blvd., Los Angeles, theatre, San Fernando Rd., Irving and Thompson Sts. $200,000.

Calif., Napa—Victory Hospital, Napa, revised plans by D. E. Jaekle, 126 Post St., San Francisco, 2 rein.-con. wing addns. for hospital. Former bids rejected. C. J. Sly, 251 Kearny St., San Francisco, engr. CD 9/30—ENR 10/2.

Conn., Meriden—First Methodist Parish, W. Carey, chn. Bd. Trustees, E. Main St., brick, stone church. $150,000.

Ill., Lake Zurich—St. Mary of Providence Institute, 4242 N. Austin Ave., Chicago, plans by H. T. Leibert, 5112 N. Kenmore Ave., Chicago. 150x300 ft. chapel, dormitory, and priest house. $200,000.

Ind., Indianapolis—F. M. Knight Realty Co., 700 Fletcher Trust Bldg., 45 houses, N. Bosart Ave., near Allisons. $220,000.

Ia., Des Moines—Johanna H. Barger & J. O. Hopkins, Rocklyn Dr., 26 detached homes, 63 St. Pl. $160,000.

★**Mass., Holyoke** — Owner, c/o Albro & Cronin, 38 Chauncy St., Boston, bids in November, 250 houses, residential development. $1,125,000.

Mass., Worcester—Congregational Temple Emanuel, I. M. Ulian, chn. Bldg Comm., 326 Main St., plans by C. R. Greco, 11 Beacon St., Boston, 1 story, bsmnt., brick, stone temple, concrete fdn., Chandler and May Sts. $150,000.

Nev., Las Vegas—Hollywood Hotel Corp., G. McAfee, pres., 6811 Hollywood Blvd., Hollywood, Calif., plans by W. C. Wierdeman & W. D. Becket, 6536 Sunset Blvd., Hollywood, Calif., hotel, casino and bungalows, 28 acre site, 2 mi. from here. $300,000.

N. Y., Brooklyn—E. Laneri, 44 Court St., plans by Kavy & Kavovitt, 44 Court St., 6 story, 133x160 ft. apartment, 1858 E. 13 St. $382,000.

N. Y., Dunkirk—W. Kinginger, 5 Laurel Pl., and C. Dale, 200 Chestnut St., both Freedonia, 28 frame dwellings, Roosevelt and Woodrow Aves. sect. $150,000.

N. Y., Kenmore (br. Buffalo)—R. B. Mooney, 67 Harding Ave., residences. $250,000. W. Lamphear, 11 Court St., Buffalo, archt.

★**N. Y., New Rochelle**—Ward Estate, c/o P. Druchker, 204 Central Park S., New York, residences. $1,250,000.

N. Y., New York—Valcourt Realty Corp., 2095 Bway., plans by J. M. Felson, 250 W. 57 St., 6 story, 90x92 ft. apartment, 223 E. 61 St. $200,000.

N. Y., New York—Temple Emanuel, J. Gerson Tolochko, rabbi, 2035 Westchester Ave., plans by M. Courland, 29 W. 34 St., 5 story, bsmnt., 100x150 ft. synagogue. $350,000.

O., Cleveland—Laymen's Retreat League c/o Rev. M. J. Phee, in charge, c/o Catholic Diocese of Cleveland, Guardian Bldg., 3 story, brick, steel retreat home. $150,000.

O., Cleveland—St. Joseph's Roman Catholic Church, T. J. O'Reilly, pastor, E. 144 St. and St. Clair Ave., brick, steel, concrete church. $150,000.

O., Cleveland—Western Reserve University, V. G. Leutner, pres., E. 107 St. and Euclid Ave., rehabilitating college bldgs. $300,000.

O., Sandusky—Sandusky Realty Co., Sandusky, 45 homes. $200,000.

O., South Euclid (br. Cleveland)—Ohio Bell Telephone Co., A. W. Bailey, in charge, 750 Huron Rd., Cleveland, soon lets contract, 1 story, bsmnt., 83x98 ft. brick, concrete telephone exchange. $150,000. E. G. Conrad, 1110 Hanna Bldg., Cleveland, archt. G. A. Kozitsky, 750 Huron Rd. Cleveland, owner's engr.

O., Willoughby—Powell & Abbott, 2180 Lee Rd., Cleveland, 53 frame houses, Jordon Rd. $308,000.

★**Pa., Drexel Hill**—Aronomink Estates, Drexel Hill, plans by L. W. Easby, Otis Bldg., Phila., stores and residences. Over $1,000,000.

Pa., Oil City—Owner, c/o Dr. H. R. Kirk, Oil City, housing. Over $150,000.

Pa., York—C. MacDonald, c/o Southern Theatre, York, Mayfair Theatre and store bldg., N. George St. $150,000.

★**R. I., Newport**—Narragansett Housing Co., MacAuley Apartments, plans by G. Iser, Chrysler Bldg., New York, N. Y., and takes bids in December, 162 unit, brick housing development. $500,000. Albro & Cronin, 38 Chauncy St., Boston, Mass., assoc. archts.

R. I., Providence—Providence YMCA, 160 Broad St., plans by Jackson, Robertson & Adams, 1216 Turks Head Bldg., and bids soon 1 story office, 1 story storage, 2 story, bsmnt. gymnasium, brick, steel, limestone, granite, addns. and alterations, YMCA, Broad St. $150,000.

COMMERCIAL BLDGS. (Proposed Work, Cont'd.)

Tenn., Nashville—Watkins Institute 153½ 6 Ave. N., plans by Hart, Freeland & Roberts, 3rd Natl Bank Bldg., rebuilding brick, rein.-con. store, destroyed by fire. $150,000. F. W. Woolworth Co., Woolworth Bldg., New York, N. Y., lessee.

Tex., Freeport—Avalon Constr. Co., Freeport, 100 frame dwellings. $420,000.

Ont., Niagara Falls—General Brock Hotel Co. Ltd., c/o Mount Royal Hotel, Montreal, Que., plans by Ross & MacDonald, Ste. Catherine St. W., Montreal, Que., hotel exten., Falls St. $150,000.

Ont., Ottawa—Church of the Latter Day Saints-Mormon, Chateau Laurier, church, Holland Ave.

Ont., Ottawa—Congregation of the Gospel Tabernacle, Bank St., church, Prescott Hy.

★**Que., Montreal**—Children's Memorial Hospital, 1615 Cedar St., plans by J. C. McDougall, 1221 Osborne St., hospital exten. and remodeling. $500,000.

BIDS ASKED

Bids Asked After October 10

Ill., Watseka—P. Swern, archt., 19 S. La Salle St., Chicago, 3 story, bsmnt., brick hospital addn., S. 4 St., for Iroquois Hospital, $175,000. CD 9/26—ENR 10/2.

Bids Asked

D. C., Wash.—Brentwood Development Co., 1311 Rhode Island Ave. N.W., 3 story, 78 units, brick, steel concrete apartment, $225,000. G. Idell, 1311 Rhode Island Ave.. archt.

Mass., Pittsfield—St. Mary's Roman Catholic Parish, J. C. McMahon, pastor, foundations, for 1 story, bsmnt., brick, stone, church. Total est. $300,000. J. R. Hampson, 30 Backman Ave., archt. R. D. Kimball Co., 6 Beacon St., Boston, engrs. CD 9/17—ENR 9/25.

Nev., Las Vegas—Janss Investment Corp., 1081 Westwood Blvd., West Los Angeles, Calif. (selected list bidders), 1 story, 125x130 ft., store, main sales bldg., 1 story, 50x150 ft. accessory and warehouse. Over $150,000. CD 8/4—ENR 8/7.

CONTRACTS AWARDED

Ark., Fort Smith—Ferguson Realty Co., 4 S. 6 St., 50 residences, day labor. **$160,000.**

Calif., San Francisco—N. E. Johnson, 1998 Silver Ave., four 1 story, bsmnt., wood frame dwellings (1st unit) vicinity Gunn and Thomas Aves., day labor. Over **$150,000.**

Calif., San Francisco—M. Muller, 1490 Jefferson Ave., 1 story, bsmnt., wood frame homes, vicinity Ralston and Sargeant Aves., day labor. Over **$150,000.**

Calif., San Francisco—J. H. Pearson, 143 Valdez Ave., 1 story, bsmnt., wood frame homes, vicinity Pt. Lobos and 45 Ave., day labor. Over **$150,000.**

Calif., San Francisco—J. M. Sala, Jr., c/o contractor, 1 story, bsmnt., wood frame residences, vicinity Williams and Neptune Sts., to A. H. Ohlsen, 242 Vienna St., over **$150,000.**

Colo., Denver—St. Luke's Hospital, 1933 Pearl St., 3 story, brick hospital addn., to Brown Schrepferman & Co., 240 Washington St., **$250,000.** CD 8/21—ENR 8/28.

Conn., Darien—Mansfield Corp., W. P. Neilson. Mansfield Ave., residential development, Peach Hill Lane. Owner builds. **$150,000.** N. Page, Mansfield Ave., archt.

Conn., Noroton—Delafield-Evers Co., 160 Post Rd., Darien, Seagate residential development, Post Rd. Owner builds. **$150,000.**

Conn., Stamford—H. P. Keller, 433 Main St., one 6 apartment and one 10 apartment bldgs., 8 bldgs., 14 apartments, 2 bldgs. 18 apartments, brick, Strawberry Hill Ave. Owner builds. **$350,000.**

★**D. C., Wash.**—S. D. Moses, Mills Bldg., 8 story (142 units), brick, concrete apartment, 1929 E Sts. N.W., own forces. **$700,000.** J. H. Abel, 1327 Conn. Ave., archt.

Mass., Northampton—Cooley Dickinson Hospital, 30 Locust St., 1 story, bsmnt., brick, steel hospital addn., alterations, to M. I. O'Connor, 696 Bridge Rd. Est. **$150,000.** Bids 9/23. CD 9/12—ENR 9/18.

Mo., Kansas City—St. Johns Seminary, 3142 Hway., 2 story, bsmnt., rein.-con. terra cotta Gethsemane Retreat House, 72 and Euclid Sts., to J. E. Dunn Constr. Co., Reliance Bldg., about **$150,000.** J. B. Shaughnessy, archt., and H. A. Noble, engr., both Reliance Bldg. Awarded 9/30.

N. H., Claremont—Parent Homes, Inc., Maple Ave., 54 residences, Pine Grove Park. Owner builds. **$216,000.**

★**N. J., Millington**—National Garden Homes Corp., 350 5 Ave., New York, N. Y., one hundred fifty 1½ story, bsmnt. homes, Fairlawn Ave. Owner builds. **$750,000.** L. Kurtz, 15 W. 44 St., New York, N. Y., archt. CD 10/1—ENR 10/9.

★**N. J., Trenton**—De Cou Village, Inc., c/o O. I. Silverstone, archt., 153 Pierrepont St., Brooklyn, initial unit 50 (eventually 200) residences, Hamilton Twp., near here. Owner builds. **$1,000,000.**

N. Y., Brooklyn—Trump Brighton Corp., 89-17 161 St., Jamaica, 63 one family homes, 19 Ave. Owner builds. **$419,000.** Kallich & Weinstein, 161 Remsen St., Brooklyn, archts.

N. Y., Lawrence—B. Gertsen, Inc., Lawrence Ave., residences. Owner builds. Over **$150,000.**

N. Y., New York—Rursdan Corp., 8 E. 41 St., 6 story, 75x94 ft. apartment, 6 E. 48 St., separate contracts. **$150,000.** Leon and Lionel Levy, 527 5 Ave., archts. CD 9/24—ENR 10/2.

N. Y., New York—Van Cortlandt Gardens, Inc., 349 E. 149 St., 6 story, 66x161 ft. apartment, Van Cortlandt and Bailey Aves., separate contracts, $300,000. H. Ginsbern, 205 E. 42 St., archt. CD 10/1—ENR 10/9.

Pa., Phila.—W. Mack, Elkins Park, residential development. Owner builds. **$150,000.**

Tex., Dallas—Southern Methodist University, 1 story gymnasium, to Henger Constr. Co., Dallas Natl. Bank Bldg.***plumbing, heating and ventilating, to Martyn Bros., Inc., 911 Camp St.***electric wiring, to J. E. Dry, 409 S. Ervay St. Total est. **$162,000.** CD 9/24—ENR 10/2.

Tex., Freeport—Avalon Constr. Co., Freeport, 100 frame dwellings, force account. Approx. **$420,000.** CD 10/9—ENR 10/16.

Wis., Milwaukee—Catholic Archdiocese of Milwaukee, 2006 W. Wisconsin Ave., reconstructing St. Johns Cathedral, to H. Schmitt & Son, Inc., 930 E. Burleigh St. Est. **$300,000.** E. Brielmaier & Sons Co., 735 W. Water St., archts. CD 5/5—ENR 5/15.

INDUSTRIAL BUILDINGS

PROPOSED WORK

Calif., Berkeley—PLANT—Hager Sash & Door Co., 1290 Cedar St., rebuilding plant, destroyed by fire. $40,000.

Calif., Downey — SHIPPING STORAGE, SERVICE, etc.—G. B. Kaufmann, archt., 627 S. Carondelet St., Los Angeles, soon lets contract, shipping storage service bldg., service garage, engine run-up bldg., gasoline loading dock, personnel bldg., 2nd story addn., etc., 842 Lakewood Blvd., for Vultee Aircraft Co., 842 Lakewood Blvd. $158,000. Tentative date.

Calif., Fresno—PLANT—Levi Pipe & Supply Co., 648 Bway., completing plans plant expansion. $40,000.

Calif., Oakland—PLANT — Chevrolet Oakland Div. General Motors, 10919 E. 14 St., made plans brick, steel plant addn. $50,000.

Calif., Oakland — FACTORY, etc.—Freschi Box Co., 215 Washington St., completing plans brick factory and warehouse. $40,000. R. H. Cooley, 354 Hobart St., engr.

★**Calif., Richmond**—PLANT—Standard Oil Co. of Calif., 225 Bush St., San Francisco, lubricating plant, Richmond refinery. $5,000,000.

Calif., San Carlos—PLANT—Welding Service Sales, Inc., 954 Howard St., San Francisco, plant. Over $75,000.

Calif., San Jose—PLANT—Continental Can Co., Inc., 155 Montgomery St., San Francisco, rein.-con. plant expansion, warehouse facilities. $200,000.

Colorado — HYDRO-ELECTRIC PLANT — Gunnison County Electric Assn., Inc., V. A. Morgan, supt., Crested Butte, constructing, installing hydro-electric generating plant, Gunnison Co., $120,000 REA allot.

Conn., Stratford—PLANT—Vought-Sikorsky Div. United Aircraft Co., 550 Main St., soon lets contract, 1 story, 75x150 ft. brick, steel plant addn. $44,000. C. W. Walker, 1115 Main St., Bridgeport, archt.

★**Ga., Savannah**—MILL—Union Bag & Paper Corp. of Ga., Lathrop Ave., c/o C. A. O'Brien, purch. agt., mill addn. $4,000,000.

Ill., Aurora—FACTORY—Independent Pneumatic Tool Co., 753 Claim St., factory addn. $40,000.

Ill., Chicago—FACTORY—White Cap Co., 1806 N. Central Ave., 1 and 2 story, brick, rein.-con., steel factory, Central, Major and Bloomingdale Aves. $250,000.

Ind., Bedford—PLANT, etc.—Black Lumber & Planing Mills, J. R. Black, proprietor, Bedford, rebuilding plant and warehouses destroyed by fire. $40,000 or more with equip.

Ind., Indianapolis—PLANT—Thiessing Veneering Co., 1501 W. McCarthy St., R. Mathers, pres., rebuilding plant destroyed by fire. $40,000 or more with equip.

Ia., Cedar Rapids—PLANTS—Iowa Electric Light & Power Co., Security Bldg., 2 steam electric generating plants.

Ia., Iowa Falls — PLANT — Central States Electric Co., Iowa Falls, steam electric generating plant.

Ia., Waukee — STORAGE, etc. — Superior Popcorn Co., 2015 Ingersoll St., Des Moines, popcorn storage and processing plant. $40,000.

★**Ky., Hazard**—PLANT—Kentucky & West Virginia Power Co., Inc., M. C. Funks, vice-pres., Hazard, [illegible] capacity, also new boiler [illegible] 000,000. Awaiting appro[illegible] Comn. American Gas [illegible] Corp., 30 Church St. [illegible] engrs. CD 3/18—ENR [illegible] York, N.

Md., Baltimore — WAR[illegible]USE — H[illegible] Realty Corp., c/o Union [illegible] Alleghany Ave. and Jun[illegible] plans by L. Kasoff, c/o ow[illegible] brick, steel warehouse, co[illegible]ete [illegible] 000.

Mass., Fitchburg—BAK[illegible]—J. J. [illegible] Water St., soon lets contra[illegible] ft., brick bakery. Water[illegible] Mason, 15 Prospect St., Le[illegible]nster, archt. 10/8.

Mass., Quincy—TRUCK [illegible]GARAGE—W[illegible] Bros., 50 French St., bids soon 1 story [illegible] ft., brick, steel, concrete garage. [illegible] W. D. Luke, 19 Warner St., West Somerville archt. CD 9/12/40—ENR 9/19/40.

Mich., Hamtramck (br. Detroit)—PLANT—Detroit Bevel Gear Co., [illegible]230 Jos Campau Ave., plans by Shreve, Anderson & Wa[illegible] 914 Marquette Bldg., Detroit; 1 story, brick steel, rein.-con. plant addn. $50,000.

N. Y., Albany—FACTORY—B. T. Babbitt Inc., 386 4 Ave., New York, factory. $2[illegible]

N. Y., Brooklyn—COMPRESSOR HOU[illegible] etc.—Robins Drydock & Repair Co., [illegible] Beard St., plans by Kelly, Syska & Hetric[illegible] 144 E. 39 St., New York, 2 story, 45[illegible] ft. compressor house and transformer s[illegible] station, 2-46 Halleck St. $95,000.

N. Y., Brooklyn — FACTORY — H. Kli[illegible] tamm & Co., 87 Park Pl., New York, pl[illegible] by Wm. Higginson & Son, 101 Park Av[illegible] New York, 1 story, 56x60 ft. factory, 51[illegible] Bay St. $40,000.

N. Y., Brooklyn—MACHINE SHOP—C[illegible] eron Machine Co., 61 Poplar St., 1 story, 7[illegible] ft. machine shop, 90 Fulton St. $40,000. M. Sushan, 367 Fulton St., engr.

N. Y., Brooklyn—FACTORY—J. Mus[illegible] Columbus Circle, New York, plans by [illegible] and S. Whinston, 2 Columbus Circle, New York, 1 story, 100x150 ft. factory, 24 N. 11 St. $40,000.

N. Y., New York—GARAGE—Hannah Bl[illegible] menthal, 225 Central Park West, plans by [illegible] Siegel, 1860 Bway., 2 story garage, 202 89 St. $100,000.

★**N. Y., Solvay (br. Syracuse)**—PLANT—Solvay Process Co., Milton Ave., phe[illegible] manufacturing plant. $500,000.

N. C., Charlotte—COLD STORAGE PLA[illegible] —Standard Ice & Fuel Co., J. G. Bo[illegible] pres., 700 W. 9 St., cold storage plant, ste[illegible] concrete, 700 W. 9 St. $60,000.

O., Cincinnati—SHOP, etc.—Three C[illegible] Highway Co., Orange Ave., Cleveland, s[illegible] lets contract, 1 story, 65x105 ft. shop, 1 st[illegible] 50x200 ft. dock, 1 story, 40x40 ft. office. $75,0[illegible] H. M. Morse Co., 1500 E. Superior Ave., Cle[illegible] land, engrs.

O., Cleveland—FACTORY—National Bro[illegible] & Aluminum Co., J. Schmeller, pres., s[illegible] Laisy Ave., rebuilding group factory bldg[illegible] to H. L. Vokes Co., 5300 Chester Ave. E[illegible] **$75,000.** Awarded 10/1.

O., Cleveland—FACTORY—Cleveland S[illegible] Products Co., J. W. Smith, genl. mgr., 2[illegible] Madison Ave., factory and office gro[illegible] $300,000, incl. equip. George S. Rider C[illegible] 3800 Terminal Tower, engrs.

O., East Cleveland (br. Cleveland)—G[illegible] RAGE, etc.—Huron Road Hospital, H. [illegible] Sims, pres., Terrace Rd., service garage laundry, etc. $75,000. George S. Rider C[illegible] Terminal Tower, Cleveland, engrs. and archts.

O., Lima—PLANT — Westinghouse Elec[illegible] & Mfg. Co., Union Bank Bldg., Pittsburg[illegible] Pa., plant expansion. Over $200,000.

O., Springfield—PLANT — National Sup[illegible] Co., 1401 Sheridan Ave., plant addns. $1[illegible] 000.

Pa., Gettysburg—WAREHOUSE, etc.—A[illegible] ams Electric Co-operative, Inc., Gettysbu[illegible] warehouse, service center, headquarters bldg[illegible] etc. Over $40,000.

Pa., Reading—PLANT — Willson Product[illegible] Inc., Washington St., brick, steel, concre[illegible] manufacturing plant, 36x120 ft. site, N. 3 st[illegible] $40,000.

Pa., Williamsport—FACTORY—U. S. Ru[illegible] bon Mill Co., L. Brizel, East and Chu[illegible] Sts., altering, constructing factory addn. Or[illegible] $40,000.

Pa., Williamsport—WAREHOUSE — Lo[illegible] Electrical Co., Inc., 643 Elmira St., 1 st[illegible] brick, steel, concrete warehouse and dist[illegible] bldg., Bridge and Elmira Sts. $40,000.

R. I., Bristol—WAREHOUSE, etc.—C. [illegible] Falugo, c/o W. M. O'Rourke, archt., 10[illegible] Hope St., 2 story, 50x125 ft., brick, steel ware[illegible] house and garage, State St. $40,000.

Tex., Dallas—PLANT—Arctic Locker & Pro[illegible] visions Co., 4531 37 McKinney Ave., 3[illegible] soon, 1 story, 50x100 ft. arctic locker plan[illegible] $50,000.

DUSTRIAL BLDGS. (Proposed Work, Cont'd.)

Tex., Greenville—PLANT—Greenville Pants ctory, Greenville, plans by J. A. Pitzinger, uthland Life Bldg., Dallas, 1 story, 30x200 concrete plant. $60,000.

Tex., Houston — PLANT — General Metals rp., c/o H. W. Schmid, Liberty Rd., 1 ry plant expansion for munition forgings. 5,000.

Utah, Crescent Junction—PLANT — Utah Magnesium Co., Crescent Junction (Grand ., magnesium chloride processing plant. 500,000.

Wis., Milwaukee—FACTORY—Ampco Metal, . 1745 S. 38 St., 1 story, 120x120 ft. ma- ine shop, 1 story, 100x100 ft. forge shop, el, brick, concrete fdn. Keierleber Constr. , Inc., 2249 W. 48 St., engrs.

Wis., Wausau—WAREHOUSE—H. Phillips . 801 Jefferson St., plans by Oppenhamer Obel, Wausau, 1 story, 40x116 ft. struc- al steel, tile, brick warehouse addn., stone

Alta., Edmonton—PLANT—Canada Packers d. Union Stock Yards, Toronto, Ont., plant ten. $50,000.

B. C., New Westminster—PLANT—Pacific neer Co. Ltd., New Westminster, plant ten. $50,000.

B. C., New Westminster—PLANT—A. Pear- n, archt., 850 W. Hasings St., Vancouver, bids m. plant imprvs., extens., installing equip., Ave. and 15 St., 40x225 ft. parking shed, x100 ft. dry shed, water pumphouse, etc., Alaska Pine Co. Ltd., 16 St. $65,000. 2:13—ENR 3/20.

Ont., Fort Erie—PLANT—Ontario Refrac- ries, Ltd., 14 Warren St., plant reconstruc- n. $50,000.

Ont., Grimsby—PLANT—EDH Co. Ltd., 405 ark St., Ottawa, plant. $40,000.

Ont., Sault Ste. Marie — PLANT — Algoma el Corp., 503 E. Queen St., plant exten. 0,000.

Ont., Toronto—PLANT—N. A. Armstrong, cht., 19 Melinda St., bids soon plant, for erner G. Smith, Ltd., 134 Royce Ave. $90,- 0. CD 9/18—ENR 10/2.

Ont., Toronto—PLANT—Canadian General ectric Co. Ltd., 212 W. King St., plans by rwood & White, 229 Yonge St., plant exten.

Ont., Toronto — FACTORY — T. Foster, 20 ctor Ave., factory. $40,000.

Ont., Toronto—PLANT—S. Smith, archt., Melinda St., bids soon, structural steel, in.-con., cut stone plant exten., 394 Sym- gton Ave., for W. D. Beath & Son, Ltd., 4 Symington Ave. $80,000.

Que., Lachine — PLANT — Canadian Allis- almers, Ltd., 25 St. Joseph St., plans by Pringle & Son, Ltd., 485 McGill St., Mont- al, plant exten. $50,000.

Que., Montreal—PLANT—Thorp-Hambrock Ltd., 2720 St. Patrick St., plans by S. mber, 485 McGill St., lacquer plant exten. 0,000.

Que., Montreal—PLANT—Charles E. Frosst Ltd., 3571 St. Antoine St., pharmaceutical oducts manufacturing plant. $60,000.

Que., Montreal—PLANT—Murphy Paint Co. d., 2704 St. Patrick St., plans by S. Comber, 5 McGill St., plant exten. $40,000.

Que., Montreal — PLANT — Shipping Con- ners Ltd., 155 Beaubien St., plant addn. 0,000.

Que., Sherbrooke—PLANT — Carnation Co. d., 80 King St. W., Toronto, Ont., plans L. N. Audet, 32 N. Wellington St., plant ddn. $50,000.

IDS ASKED

Bids Asked About October 25

Calif., Los Angeles—WAREHOUSE—May Co., 8 and Bway., (selected list contrac- rs), 4 story, steel warehouse, Jefferson St. d Hope Sts., approx. $500,000. A. C. Martin, ggins Bldg., archt. Holmes & Narver, 639 Spring St., engrs.

Bids Asked

Calif., Redwood City—WAREHOUSE—J. senwald, engr., 525 Market St., San Fran- co, rein.-con. warehouse addns., for S and Fine Foods, Inc., 155 Berry St., San Fran- co. $50,000.

Calif., San Francisco—PLANT—F H.. Meyer, cht., Kohl Bldg., 2 story bsmnt., 175x227 rein.-con. printing and publishing plant, Carlisle & Co., Upham & Rutledge, Inc., 5 Post St. $250,000. CD 6/24—ENR 6/26.

Ill., Chicago—FACTORY—A. Epstein, engr., 2001 W. Pershing Rd., 2 story, 55x175 ft. candy factory addn., 600 W. Van Buren St., for Fanny May Candy Shops, Inc., 220 W. Madison St. $50,000.

O., Warren—FACTORY—American Welding & Mfg. Co., 1 story, 173x262 ft., brick, steel factory. $150,000. W. Leipner, 1900 Euclid Ave., Cleveland, engr.

Wis., Wausau — WAREHOUSE — Wausau Serv. Co., 128 W. Washington St., 1 story, 60x100 ft. warehouse and 1 story, 40x40 ft. repair shop, brick, steel, tile, stone fdn. G. E. Foster, Jr., 327 3 St., archt. CD 9/17—ENR 2/5.

Ont., Toronto—PLANT—Swift Canadian Co. Ltd., St. Clair Ave. W., 2 story, 60x80 ft., rein.-con. plant exten., St. Clair Ave. W. About $100,000. CD 9/11—ENR 9/18.

LOW BIDDERS

Calif., Palo Alto—BUS TERMINAL—W. D. Peugh, archt., 333 Montgomery St., San Francisco, about Sept. 29, rein.-con. motor bus terminal from W. P. Goodenough, 49 Wells Ave., for Pacific Greyhound Lines, 5 and Mission Sts., San Francisco, **$42,364.** CD 9/19—ENR 9/25.

CONTRACTS AWARDED

Calif., Los Angeles—STORAGE, etc.—Union Pacific R.R. Co., B. H. Prater, ch. engr., 15 and Dodge Sts., Omaha, Neb., 1 story, 40x113 ft., wood frame commissary bldg., to MacIsaac & Mencke, 3445 Union Pacific Ave. **$50,000.** Bids 9/30. CD 9/23—ENR 9/25.

Calif., Oakland—WAREHOUSE—Rossi Cigar Co., Inc., 1417 Center St., 2 story, brick warehouse, to W. J. Johnston, Richfield Oil Bldg., **$48,000.**

Calif., Salinas—GARAGE, etc.—C. E. Butner, archt., 7 Winham St., concrete, brick garage and shop addns., for Voss Motor Car Co., Salinas, to V. H. Moore, 15 Williams Rd. **$43,640.** CD 10/1—ENR 10/9.

Conn., New Britain—PLANT—New Britain Machine Co., 140 Chestnut St., 1 story, 100x140 ft., concrete, steel, plant, to Hasson & Downes, New Britain, **$53,400.** M. L. Baldesari, Stanley St., engr.

★**Ill., Chicago** — WAREHOUSE — High-Low Food Stores, 4343 Cottage Grove Ave., 1 story, 265x425 ft., face brick, stone warehouse, 100 ft. brick stack, 87 St. near State St., masonry contract to Rune & Son, 6760 Stony Island Ave.***roof trusses, to Summerbell Truss Co., 4230 W. Taylor St.***plumbing, Charles C. Breyer Co., 1121 N. Ashland Ave. Est. **$500,000.** C. A. Shantz, 25 E. Jackson Blvd., archt. A. Kuebler, c/o owner, engr.

Md., Baltimore—WAREHOUSE—A. Hirsch, 1338 Guardian Bldg., Cleveland, O., 1 story, 85x205 ft., brick, steel warehouse and office, concrete fdn., 2730 Loch Raven Rd., to Garrick Constr. Co., c/o owner. Est. **$40,000.**

Mass., Lynn—FORGE SHOP, etc.—General Electric Co., 920 Western Ave., 1 story, 80x85 ft., brick, steel, forge shop exten., Western Ave., to L. R. Porter Co., 126 Park St., Beverly, est. over **$40,000,** incl. equip.; 1 story, 81x364 ft., concrete manufacturing unit, Western Ave., owner builds, **$40,000.**

Mich., Detroit—PLANT—Lyon, Inc., 197 W. Waterman Ave., 1 story, 200x500 ft., brick, steel, concrete factory, to Cooper Constr. Co., 572 Maccabees Bldg. Est. **$312,000.** CD 7/23—ENR 7/31.

Mich., Lansing—FACTORY—Nash-Kelvinator Corp., Lansing, brick, steel, rein.-con. factory addn., alterations, plain fdn., to Granger Bros., 509 Lincoln St. Est. **$68,000.**

N. J., Unionville—PLANT—Elastic Stop Nut Corp., 2330 Vauxhall Rd., design and construction 1 story, 140x250 ft., and 40x260 ft., brick, steel manufacturing plant addns., Vauxhall Rd., to Austin Co., 19 Rector St., New York, N. Y. **$150,000.**

N. Y., Colonie (br. Albany)—SERVICE—Magnus Metal Co., Colonie, service bldg., boiler house, oil storage bldg., to Austin Co., 19 Rector St., New York. Est. **$40,000.**

N. Y., Freeport—PLANT—Columbian Bronze Corp., 216 N. Main St., bronze casting plant, to Austin Co., 19 Rector St., New York, N. Y., **$50,000-$60,000.**

N. Y., Schenectady—PACKING PLANT—Pleasant Valley Packing Co., 586 Bway., 1 story, 65x100 ft. and 35x100 ft., rein.-con., brick packing plant addn., to G. Corneau, 1185 Regent St. Est. **$125,000.** CD 8/18—ENR 8/21.

N. C., Durham—BUS TERMINAL—J. M. Edwards, archt., 102 W. Hargett St., Raleigh, bus station, for J. A. Buchanan, Durham, to Cole & Crumpacker, Durham. Est. **$75,000-$100,000.** Carolina Coach Co., Durham, lessee. Bids 9/18. CD 9/11—ENR 9/18.

O., Canton — BOILER HOUSE — Timken Roller Bearing Co., 1835 Dueber Ave. S.W., brick, concrete, metal boiler house, 1720 20 St. S.W., to Gibbons-Grabble Co., Meliett Bldg., **$100,000.**

O., Cleveland—BAKERY—Today's Bakeries, Inc., R. W. Parkins, secy., McKeesport, Pa., 1 story, 66x200 ft., brick, steel bakery, to A. M. Higley Co., 2036 E. 22 St. Est. **$40,000.** Awarded 10/5. George S. Rider Co., 3800 Terminal Tower, engrs.

O., Cleveland—BOILER HOUSE—Cleveland Graphite Bronze Co., B. F. Hopkins, pres., 16800 St. Clair Ave., 1 story, 98x100 ft., brick, steel boiler house, to A. M. Higley Co., 2036 E. 22 St. Est. **$200,000.** J. H. Graham, Hanna Bldg., archt. J. P. Jones, Cary & Miller Terminal Tower, engrs.

O., Cleveland—FACTORY — Apex Electric Mfg. Co., C. S. Frantz, pres., 1070 E. 152 St., 1 story, 145x325 ft., brick, steel factory addn., to Bolton-Pratt Co., 1276 W. 3 St. Est. **$100,000.** Awarded 10/3. CD 10/6—ENR 10/9.

Tex., Dallas—GARAGE—A. DeWitt, c/o Bank Garage, 4 story, brick, concrete parking garage, ramps, etc., to C. Burgher, c/o W. W. Ahlschlager, archt., Southland Life Bldg., approx. **$138,000.**

Tex., Pharr—PACKING PLANT—Boler Fruit & Vegetable Co., Pharr, 1 and 2 story packing plant, day labor, approx. **$40,000.**

Vt., Lyndonville—FACTORY—Vermont Tap & Die Co., 2 story, bsmnt., 50x160 ft., rein.-con. factory, to Harty Blaney Constr. Co., 25 Huntington Ave., Boston, Mass. **$60,000.**

Va., Richmond—PLANT—American Tobacco Co., Inc., 26 and Cary Sts., 1 story, frame and metal shed at South Richmond plant to W. E. Baker, Durham, N. C., **$69,000.**

Wash., Seattle — STORAGE — Blackstock Lumber Co., 535 Elliott Ave. W., 176x248x273 ft., triangular frame lumber storage bldg., to W. G. Clark, 408 Aurora Ave. Est. **$45,000.** D. D. Williams, Textile Tower, archt.

Wash., Tacoma—CELL, etc.—Pennsylvania Salt Mfg. Co., 2901 Taylor Way, cell bldg., new converter and converter repair work, to R. T. Early Co., 418 N. 11 St. **$69,389.**

Wyo., Cheyenne — RAILROAD SHOPS — Union Pacific R.R. Co., B. H. Prater, ch. engr., 1416 Dodge St., Omaha, Neb., 100x176 ft., brick, steel shops, to James Leck Co., 211 S. 11 St., Minneapolis, Minn. Est. **$465,000.** CD 7/21—ENR 7/24.

B. C., Vancouver — PLANT — Canadian Wright & British Engineers, Ltd., 195 W. First St., plant exten., to Carter-Halls-Aldinger Co. Ltd. 1670 Taylor St. **$190,000.**

Ont., Decew Falls—POWER HOUSE, etc.—Hydro-Electric Power Comn. of Ontario, 620 University St., Toronto, flumes and power house, day labor. **$200,000.** CD 5/23.

Ont., Malton—PLANT—National Steel Car Corp., Ltd., Kenilworth Ave., Hamilton, superstructure main plant exten., Malton Airport, to Tope Constr. Co., Ltd., 677 Main St. W., Hamilton, about **$200,000.** H. H. Angus, 1221 Bay St., Toronto, engr.

Ont., Niagara Falls — PLANT — Canadian National Rys., B. Wheelwright, ch. engr., Union Station, Toronto, car department bldgs., to Fried Constr. Co., Ltd., 70 Victoria St., Toronto, about **$45,000.** Bids 9/19. CD 9/10—ENR 9/18.

Ont., Niagara Falls—PLANT—North American Cyanamid Co., 4 Ave., 50x150 ft., steel frame corrugated iron plant to house electric cyanide furnaces, own forces. **$40,000.** Awarded 10/2.

Ont., Sarnia—PLANT—Sarnia Bridge Co., 251 Campbell St., 1 story, 60x160 ft., concrete block, frame, structural steel plant, own forces. **$45,000.**

Ont., Toronto—FACTORY—Don Valley Paper Co., 7 Beechwood Dr., plant exten., to Baines & David, Ltd., 54 Commissioners St. Est. **$40,000.** CD 9/25—ENR 10/2.

Ont., Toronto—PLANT—Amalgamated Electric Corp. Ltd., 384 Pape Ave., 1 story, 150x175 ft., concrete plant exten. to Foundation Co. of Ontario, Ltd., 1158 Bay St., about **$150,000.** Mathers & Holdenby, 96 Bloor St., archts. CD 9/26—ENR 10/9.

Ont., Virginiatown—DRY HOUSE—Kerr Addison Mines, Ltd., Virginiatown, exten. dry house, to Hill-Clark-Francis, Ltd., New Liskeard. Est. **$50,000.**

OFFICIAL PROPOSALS

Official notices of bids wanted on construction and related work, equipment and material for government, state, municipal departments and private enterprises

RATE: *THE RATE FOR OFFICIAL PROPOSAL ADVERTISING IS 50 CENTS PER LINE (OR FRACTION) PER INSERTION*
COPY RECEIVED *UP TO 12 NOON TUESDAY FOR ISSUE OUT THURSDAY SUBJECT TO SPACE OPEN FOR LAST-MINUTE ADS*
SEND COPY *TO OFFICIAL PROPOSAL DIVISION, ENGINEERING NEWS-RECORD, 330 W. 42ND ST., NEW YORK, N. Y.*

Bids: October 20 (601)

Water Tunnel Connections

DEPARTMENT OF PUBLIC WORKS
CITY OF CHICAGO
CHICAGO, October 6, 1941.

SEALED PROPOSALS will be received by the City of Chicago until 11 A. M., Chicago Daylight Saving Time, on Monday, October 20, 1941, at Room 406 City Hall, for furnishing all labor, materials, tools, etc., and for performing all work required for making Tunnel Connections to the Southwest Land Tunnel System at the South District Filtration Plant, located in the vicinity of East 79th Street and Lake Michigan, Chicago, Illinois, according to plans and specifications on file in the office of the Department of Public Works of said City, Room 406, City Hall.

The work consists of mining and lining approximately 3,160 lineal feet of 16 foot tunnel and 1,070 lineal feet of 13 foot tunnel, in rock, making two connections to the existing Southwest Land Tunnel System, sinking and equipping a 10 foot gate shaft, and incidental work in connection therewith.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, indorsed "Proposal for Tunnel Connections," and be accompanied by Twenty-five Thousand Dollars ($25,000.00) in money or a certified check for the same amount on some responsible bank located and doing business in the City of Chicago and made payable to the order of the Commissioner of Public Works.

Plans and specifications may be obtained upon payment of Ten Dollars ($10.00) for each set, which will be refunded upon the return of said plans and specifications in good condition within thirty (30) days after the opening of bids. Deposits to be in the form of money or certified check.

According to the provisions of the Act of the General Assembly of the State of Illinois, entitled "An Act regulating wages of laborers, mechanics and other workmen employed under contracts for public works," approved June 26, 1941, the general prevailing wage rates for work at the construction site are set forth in the specifications.

The Commissioner of Public Works reserves the right to reject any or all bids.

No proposal will be considered unless the party submitting the same shall furnish evidence satisfactory to the Commissioner of Public Works of ability, and the possession of the necessary facilities, together with sufficient pecuniary resources to fulfill the conditions of this contract and specifications.

OSCAR E. HEWITT,
Commissioner of Public Works.

Bids: October 27 (586)

Water Pipe Line

CONTRACT 67
CONSTRUCTING THE
NEPAUG PIPE LINE NO. 2

SEALED PROPOSALS addressed to The Board of Contract and Supply of The Metropolitan District and endorsed "PROPOSAL FOR THE CONSTRUCTION OF THE NEPAUG PIPE LINE NO. 2 IN THE TOWNS OF AVON AND FARMINGTON, CONNECTICUT", will be received at the Executive Office of The Metropolitan District at the Municipal Building, 550 Main Street, Hartford, Connecticut, until 2:15 o'clock P.M., Eastern Standard Time, Monday, October 27, 1941, at which time and place they will be publicly opened and read.

After the bids are opened and read they will be taken under advisement and the award of the contract, if awarded, will be made as soon thereafter as practicable.

The work to be done includes furnishing and installing material for about seven (7) miles of pipe line starting at the junction of the Collinsville By-pass pipe line and the present Nepaug pipe line about 8,000 feet south of the Village of Collinsville and extending generally in an easterly direction to the west end of the present Nepaug conduit about 7,000 feet north of the Town of Farmington.

Alternate proposals will be considered on the basis of 36-inch reinforced concrete cylinder pipe and 37½-inch electrically welded steel pipe, double dipped in asphalt enamel.

Plans and specifications may be obtained on and after October 9, 1941, at the Office of the Manager and Chief Engineer of The Water Bureau of The Metropolitan District, 1026 Main Street, Hartford, Connecticut, on deposit of ten dollars ($10), in cash or certified or cashier's check, made payable to The Water Bureau of The Metropolitan District, which amount will be refunded if both are returned in good order within one month of date of opening of bids. No deposits will be refunded after that time. Specifications used in making a bid will be considered as returned.

Original scale blueprints may be obtained for cash payment, or certified or cashier's check, of five dollars ($5) per set (15 plans) additional for which there will be no refund.

Each proposal must be accompanied by a certified or cashier's check for an amount covering not less than ten per cent. (10%) of the total amount bid, made payable to The Metropolitan District, and a satisfactory surety bond, as stated in the Information for Bidders, for the total amount bid will be required of the successful bidder for the faithful performance of the contract.

The right is reserved to accept any bid, whether or not the lowest, or to reject any or all bids as the interest of the District may appear to require.

THE METROPOLITAN DISTRICT
BOARD OF CONTRACT AND SUPPLY,
By Richard Dillon, Clerk.
Hartford, Connecticut,
September 26, 1941.

Bids: October 22 (578)

Sewage System Improvements

VILLAGE OF BALLSTON SPA, N. Y.

Sealed bids for the construction of a 30 inch outfall sewer, a 16 inch cast iron force main, sewage pump, sewage disintegrator, and improvements to the sewage pumping station will be received by the Board of Trustees, at the Village Office until seven-thirty P.M. Eastern Standard Time, on the 22nd day of October, 1941, and then publicly opened and read aloud.

The work will be divided into two sections as follows: Section 1—Outfall Sewer and Force Main; Section 2—Sewage Pump, Sewage Disintegrator and Improvements to the Sewage Pumping Station. Contractors may bid on either or both Sections.

The Information for Bidders, Form of Bid, Form of Contract, Plans, Specifications and Performance Bond may be examined at the Office of the Village Clerk, Village of Ballston Spa and at the office of Solomon & Keis, Consulting Engineers, 257 Broadway, Troy, N. Y., copies thereof may be obtained at the said office of Solomon & Keis upon payment of $25.00 for each set. Any bidder upon returning such set promptly and in good condition, will be refunded his payment, and any non-bidder upon so returning such set will be refunded $20.00.

The Board of Trustees of the Village of Ballston Spa, reserves the right to Waive any informalities in or to reject any or all bids.

Each bidder must deposit with his bid security in an amount of not less than five percentum (5%) of the base bid in the form and subject to the conditions provided in the Information for Bidders.

No bidder may withdraw his bid within 45 days after the actual date of the opening thereof.

September 29, 1941.

Donald D. Hall
Village Clerk.

U. S. Government

WAR DEPARTMENT, Office of the Constructing Quartermaster, Fort Dix, N. J. Sealed proposals will be received until 2:00 P. M., E. S. T., October 22, 1941, and then publicly opened for *Construction and completion of Drainage Structures to Base House Tilton General Hospital*, Fort Dix, New Jersey. Certified check in the amount of twenty-five dollars ($25.00) payable to the Treasurer of the United States is required for deposit on Plans and Specifications. Further information upon application to this office. (607)

WAR DEPARTMENT, U. S. Engineer Office, 332 Post Office Building, Baltimore, Maryland. Sealed bids, in duplicate, will be received here until 11:00 A. M., E. S. T., November 12, 1941, and then publicly opened for furnishing all plant, labor and materials and performing all work required for the *construction of Coal Creek Diversion involving approximately 60,000 cubic yards of material and 1,600 cubic yards concrete* located in Borough of Plymouth, Luzerne County, Pennsylvania. Plans and specifications available upon receipt of certified check in amount of $15.00 made payable to the "Treasurer of the United States". Further information upon application. (608)

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, Washington, D. C., October 6, 1941. Sealed bids (Specifications No. 1003) will be received at the office of the Bureau of Reclamation, Denver, Colorado, until 2 p.m., November 6, 1941, and will at that hour be opened, for furnishing and delivering f.o.b. cars at the shipping point or f.o.b. cars at Boulder City, Nevada, at the option of the bidder, five 230-kilovolt, 1,200-ampere, 3-cycle, *oil-circuit breakers;* three 230-kilovolt, 1,200-ampere, three-pole, motor-gang-operated, selector-type, *disconnecting switches* with motor-gang-operated grounding blades; six 230-kilovolt, 1,200-ampere, three-pole, single-throw, motor-gang-operated, *disconnecting switches*, one with motor-gang-operated grounding blades; one 230-kilovolt, 1,200-ampere, three-pole, single-throw, manually-gang-operated, *disconnecting switch;* one 230-kilovolt, three-phase, outdoor-type, *lightning arrester* for suspension mounting; and three 55,000-kv.-a., 60-cycle, single-phase, water-cooled, 16,500- to 132,800/230,000 Y-volt *transformers* for the Boulder power plant, Boulder Canyon project, Arizona-California-Nevada. All apparatus will be assembled and installed by the Government. The specifications contain no provision for liquidated damages for delay. On July 24, 1941, the Office of Production Management issued preference rating A-1-c to deliveries of all materials on the Priorities Critical List which will directly or indirectly enter into the construction of the Boulder power plant, Boulder Canyon project. No charge for copies of the specifications to prospective bona fide bidders; to others, $2.50 not returnable. For particulars, address the Bureau of Reclamation, Denver, Colorado, or Washington, D. C. H. W. Bashore, Acting Commissioner. (611)

WAR DEPARTMENT, Office of The Constructing Quartermaster, Fort Leavenworth, Kansas. Sealed bids in triplicate will be received until 11:00 A.M. CST October 21, 1941, and then publicly opened for *constructing and completing one (1) Regimental Chapel*, Type CH-1, *and appurtenances thereto at Fort Leavenworth, Kansas.* Plans and Specifications may be obtained upon deposit of a certified check in the amount of ten dollars ($10.00), made payable to the Treasurer of the United States. (605)

SEALED PROPOSALS will be received at this office until 2:30 P.M. Central Standard time on the 3rd day of November 1941, and then publicly opened for furnishing and installing a *hydraulic testing machine and stress strain recorder* at the Forest Products Laboratory, Madison, Wisconsin. Specifications and proposal forms may be had on application at this office. (610)

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